

Shri. Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

First Sessional	Theory	Examination	2019	-2020
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Subject: Industrial Pharmacy-I (BP502T) Day & Date: Friday & 27/09/2019

Class: Third Year B. Pharm Time: 10.30 - 12.00 pm

Semester: V Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

OI	Multir	ole Choice	Questions	(MCOs)
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1. Preformulation study of drug describe which properties –

a. Physical

b. Chemical

c. Physicochemical

d. Physiological

2. Very weak base drug with pKa \leq 5 will absorb from

a. Stomach

b. Intestine

c. Colon

d. Entire length of GIT

3. The optical activity of compound due to Racemization is

a. Zero

b. Dextro (+)

c. Leavo (-)

d. trans rotatory

4. Disintegration time of film coated tablet is

a. 15 min

b. 30 min

c. 60 min

d. 120 min

5. The formation of compact mass in dry granulation is known as

a. Slug

b. Granules

c. Pellets

d. Beads

6. The brand name of freely flowable directly compressible diluent

a. Lactose

b. Avicel

c. Primogel

d. Mannitol

7. The size of nozzle in inch for High pressure airless system is

a. 0.9-0.20

b. 20-60

c. 0.020-0.060

d. 0.009-0.020

8. The effect high temperature on tablet coating leads to film defect known as

a. Blistering

b. Picking

c. Roughness

d. Orange Peel effect

9. Bloom Strength of Gelatin for hygroscopic drug is

a. 150 -180 gm b. 180 - 250 gm

c. 150 - 250 mg

d. 100 - 150 mg

10. Ratio of Dry Plasticizer / Dry Gelatin for Hard gelatin capsule is

a. 0.6

b. 0.4

c. 1.2

d. 0.8

Q.II Long Answers (Answer any 1 out of 2)

10

1. Define Tablet & Explain in brief about IPQC test for Tablet manufacturing.

2. Discuss in details about steps involved in mfg. of Hard gelatin capsule and Piston . Tamp fill principle/vibratory fill principle.

Q.III Short Answers (Answer any 2 out of 3)

10

1. Describe in brief about principle of Wet granulation.

2. What is significance of polymorphism and solubility in preformulation study.

3. Enlist in processing problems of tablet mfg. and give causes and remedy for capping and lamination.



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Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

First Sessional Theory Examination 2020-2021 (Odd Sem)

Subject: Industrial Pharmacy-I (BP 502 T) Day & Date: 21/10/2020

 Class:
 T.Y. B. Pharm
 Semester: Vth

 Time:
 10.30 am- 12.00 pm
 Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

- **1.** The conductivity test comes positive in....emulsion.
- a. W/O type; b. O/W type; c. Both a and b; d. None of the above
- 2. Which of the following technique measure the particle size by determining volume?
- a. Microscopy; b. Sedimentation; c. Coulter counter; d. Dynamic light scattering
- **3.** Type A gelatin istreated and has isoelectric pH.....
- a. Alkali treated, 4.7; b. Acid treated, 4.7; c. Acid treated, 9; d. Alkali treated, 9.
- **4.** Which technique(s) are used for polymorph screening?
- **a.** Differencial scanning colorimetry; **b.** FTIR spectroscopy; **c.** XRD analysis; **d.** all of the above.
- 5. In which of the following capsule filling method slugs/plugs are formed?
- **a.** Auger Fill Principle; **b.** Piston-Tamp Principle; **c.** Vibratory Fill Principle, **d.** none of the above.
- **6.** Based on BCS classification, BA/BE waivers (biowaivers) can be applied for BCS and...... IR solid oral dosage forms.
- a. Class 3 and class 2; b. Class 2 and class 4; c. Class 1 and class 3; d. Class 1 and class 2
- **7.** The difference in potential between the actual surface and the electroneutral region is called as...
- **a.** Electrothermodynamic potential; **b.** zeta potential; **c.** Nernst potential; **d.** both a and c.

- **8.** The iron contents of gelatin should be present in between....
- **a.** 25-45 poise; **b.** 25-45 millipoise; **c.** 45-50 millipoise; **d.** 50-100 millipoise
- **9.** Read the following statements:
 - **A.** Stable polymorphic form have low energy state, high M.P., least aqueous solubility
 - **B.** Metastable polymorphic form have lowest energy state, high M.P., and lesser aqueous solubility
- **a.** Both A and B are true; **b.** Both A and B are False; **c.** A is false and B is true; **d.** A is true and B false
- **10.** Angle of repose (tan θ) is given by the formula...

a.
$$tan\theta = \frac{2h}{r}$$
; **b.** $tan\theta = \frac{2h}{D}$; **c.** $tan\theta = \frac{h}{D}$; **d.** $tan\theta = \frac{D}{2h}$

QII Long Answers (Answer any 1 out of 2)

10

- 1. Enlist various official and non-official quality control tests for evaluation of tablets. Explain in detail about the friability test, disintegration test, weight variation test, and content uniformity test.
- **2.** Enlist various physical and chemical properties involved in the preformulation. Explain about i. pKa ii. Partition coefficient, iii. Hydrolysis, and iv. Oxidation

QIII Short Answers (Answer any 2 out of 3)

- 1. Explain the steps and the theory involved in wet granulation.
- 2. Explain in the process of capsule shell manufacturing. Give important properties of gelatin.
- 3. Discuss in detail compression and processing defects (problems) of Tablet.



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First Sessional Theory Examination 2020-2021 (Odd Sem)

Subject: Industrial Pharmacy-I (BP 502 T) Day & Date: Tuesday 12/10/2021

 Class:
 T.Y. B. Pharm
 Semester: Vth

 Time:
 10.30 am- 12.00 pm
 Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

- 1. Remedy for Capping is
 - a. Use of suitable colors/dyes; b. Precompression; c. Incorporate dry colour additive; d. use of glidant
- **2.** The friability of the tablet should not exceed.....
 - a. 0.5%; b. 2%; c. 1%; d. 1.5%
- **3.** The raising and lowering frequency per minute of basket-rack assembly in disintegration tester is...
 - a. 35-40 cycles; b. 32-35 cycles; c. 29-32 cycles; d. 22-26 cycles
- **4.** The bloom strength of gelatin should be present in the range of.....
 - a. 250-300 g; b. 100-150 g; c. 50-100 gm; d. 150-250 g
- **5.** In which of the following capsule filling method slugs/plugs are formed?
 - a. Dosing disk machine b. Dosator machine; c. Auger Fill Principle; d. both a and b
- **6.** The relationship between pH, solubility and pKa value of an acidic drug is given by
 - a. Henderson Hasselbalch equation; b. Bragg's Equation; c. Noye's Whitney Equation; d. All of the above
- **7.** Amorphous nature of the material can be identified by.....
 - a. unique set of intensity peaks in XRD studies; b. broad diffraction pattern called as "Halo" in XRD studies; c. Both a and b; d. None of these

- **8.** Formaldehyde is degraded mainly by...... reaction.
 - a. Hydrolysis; b. Polymerization; c. Oxidation; d. Racemization.
- **9.** Drug is said to be sparingly soluble, if Parts of solvent required for solubilizing its one part.
 - a.1-10; b. 10-30; c 30-100; d. 100-1000
- **10.** Crystal habit describes the.....
 - a. molecular arrangement within the crystal; b. Outer appearance of the crystal; c. Both a and b; d. None.

QII Long Answers (Answer any 1 out of 2)

10

- **1.** Enlist various materials used in capsule shell manufacturing. Discuss in detail the process of manufacturing of capsule shell and quality control of gelatin used.
- 2. Elucidate in detail Wet and Dry granulation process in Tablet manufacturing.

QIII Short Answers (Answer any 2 out of 3)

- 1. Illustrate in brief about:
 - i. PKa
 - ii. Oxidation
- **2.** Write about Biopharmaceutical Classification system (BCS) of drug and give its significance.
- **3.** Discuss about the formulation of emulsion.



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Subject	:	Industrial Pharmacy-I (BP502T)	Day & Date	:	Tue	sday,	31/10/2023
Class	:	Third Year B. Pharm	Semester	:	V	Write	Your Seat No. Here
Time	:	10.30 am – 12.00 pm	Max. Marks	:	30		
Instructions	s: 1. 3.	All questions are compulsory Right hand side number indicates full marks	2. Draw a well label 4. Do not write/tick o				

QI	Objective Type Questions $(5 \times 2) = 5 \times 2 = 10$ (Answer all the questions)	10 M
1.	Define Preformulation. Classify and enlist various preformulation parameters. (LL1, CO1)	
2.	Write the significance of particle size in preformulation. Enlist various methods to determine the particle size	. (LL3, CO1)
3.	a. Define: Polymorphism? (<i>LL1</i>, <i>CO1</i>)b. State the role of Glidants in tablets? (<i>LL1</i>, <i>CO2</i>)	
4.	Distinguish between hard gelatin capsules and soft gelatin capsules. (LL2, CO2)	
5.	What is capping and lamination in tableting? (LL2, CO2)	
QII	Long Answers Question (Answer any 1 out of 2)	10 M
1.	Explain in detail about capsule shell manufacturing and capsule filling principles of hard gelatin capsules. (A	LL3, CO2)
2.	Illustrate in detail about the manufacturing techniques of tablets. (LL3, CO2)	
Q.III	Short Answers Question (Answer any 2 out of 3)	10 M
1.	Explain the BCS classification of drug. Give its significance. (LL3, CO1)	
2.	Write the applications of preformulation studies in the development of solid dosage forms. (<i>LL3</i> , <i>CO1</i>)	
3.	Explain the chemical properties of the drug with suitable examples. (LL3, CO1)	



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First Sessional Theory Examination-(ODD SEM) 2022-2023

Subje		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Day & Date :	WED,09/11/2022
Class		Third Year B. Pharmacy	Semester :	Write Your Seat No. Here
Time		10:30 am – 12:00 pm	Max. Marks :	30
Instruc	tions:	. All questions are compulsory 2. Right hand side number indicates full mark	2. Draw a well labeled as 4. Do not write/tick on the	diagram wherever necessary
QI Mu		Choice Questions (MCQs)	5 1. Do not write, ack on a	10 M
1. I	Followi	ng are the tablets used in oral cavity except		
A. Buc	cal tab	ets B. Sublingual tablets	C. Floating Tablets	D. Troches and Lozenges
	Percent	deviation allowed for weight variation test for		
A. 5%		B. 10%	C. 2.5%	D. 12%
3. I	Followi	ng are the examples of polymers used in enterior	ic coating except	
A. Cell	lulose a	cetate phthalate B. Eudragit S100 C. Hydroxy	propyl methylcellulose phthalate D	polyvinyl acetate phthalate
4. V	Which	of the following defect occur due to inadequate	e spreading of the coating solution?	
A. Haz	zing	B. Lamination;	C. Orange peel effect	D. Sticking
5. I	Rotatin	drum of Friability tester rotates for		
A. 50	times	B. 150 times	C. 120 times	D. 100 times
6.	Negativ	e Log of acid dissociation constant is		
A. pOI	Η	В. рН	C. pKa	D. Log P
7.	Crystal	ine materials possess the following properties.		
A. Cha	racteri	tic melting point B. Molecules packed in defir	ned order C. Both A and B D. Do no	ot have specific melting point
8. I	Particle	size distribution is quantified by determining	the weight of particles in meth	iod.
A. coul	lter cou	nter B. microscopy	C. dynamic and laser ligh	t D. sieving
9. I	Drug is	said to be very rapidly dissolving, if it dissolve	es	
A. Mor	re than	35% in 15 min; B. More than 85% in 30 min; 0	C. More than 75% in 15 min; D. Mo	ore than 75% in 30 min
10.	X-ray d	ffraction pattern indicate		
A. Solu	ubility	B. Crystallinity	C. Functional groups	D. Permeability
QII	Long	Answers Question (Answer any 1 out of 2)		10 M
1.	Illusti	ate in detail about granulation methods in table	et manufacturing.	<u>'</u>
2.	Expla	in about various excipients used in formulation	n of tablet.	
QIII	Shor	Answers Question (Answer any 2 out of 3)		10 M
1.	Illusti	ate in detail any two physical properties of dru	ig and give their significance in pre-	formulation studies.
2.	Expla	in the oxidation and hydrolysis of drug with su	uitable examples.	
3.	Expla	in the BCS classification of drug and state its s	significance.	



Class: T.Y.B. Pharm

Shri. Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule

Semester: V

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

First Sessional Theory Examination 2019 - 2020

Subject: Medicinal Chemistry-II (BP501T) Day & Date: Thu, 26 Sep.2019

Time: 10.30 am to 12.00 pm		x. Marks:	30	
Instructions: 1. All questions are			¥	
2. Draw a well labei 3. Right hand side n	- C		ary	
Q I Multiple Choice Questions (M		uu marks		10
1. Diphenhydramine is a	10(0)			10
	ه. Amino alkyl و	ether analog	ııė.	
c. Mono amino propyl analogue	d. Ethylene dian	_		
2. Anti allergic common name for -		inne anarogi		
a. H2 antagonist .b.H1 antagonist		t	d. Both a & b	
3. Basic nucleus present in proton p	~		a. Both a co	
	c. Benzimidazole	2	d. Isoquinolin	ne ·
4. Which of the following nucleoph		-	•	
alkylating agent			puese ser maeroepin	ine accases by as
a. N2 b. N3	c. N7	d. N6		
5. Dipyridamole has a mode of acti				
a. Blocks the calcium channel b.	Vasodilator			
c. Blocks the β receptor	Inhibits adenosine	deaminase e	enzyme	
6. Which of the following drug has				Blocker
	c. Ketoconazole	d. Nife		
7. Which of the following prodrug	nitrogen mustard		· N	
a. Chlorambucil b. Mechloretha	mine c. Mepha	lan 🔽	l. Cyclophosphamid	le
8. Dichlorphenamide belongs to wh	ich class of diuret			
a. Loop diuretic b. Thiazide diuret	ic c. Carbonic anh	ydrase inhib	itor d. Potassium sp	paring diuretic
9. Pyrrolidine ring containing antih	ypertensive drug	*		
a Lisinopril b. Diazoxide	c. Losartan	c. N	one of the above	7.
10. Atrial flutter characterized by				
a. 150-300 beats/min b.350-600 b	eat/min c. 60-70 b	eats/ min d	l. 100-180 beats/mir	ı .
QII. Long Answers (Answer any			•	10
1. Classify antineoplastic agents. W	rite each two struc	ctures from e	every class and write	e a note on
alkylating agents.		161		
2. What is hypertension? Write brie				assification of
antihypertensive agents with examp	le. Write the SAR	of ACE inh	ibitors 4	
OHI CL.			,	
QIII. Short Answers (Answer any	2 out of 3) .			10

1. Write the detailed SAR of Classical Antihistaminic with eg.

2. Define diuretics and classify it Give a brief SAR of thiazide diuretics with e.g.

3. Write down a mode of action and SAR of Calcium channel blockers



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First Sessional Theory Examination 2020-2021 (Odd SEM)

Subject & Subject Code: MC-II (BP 501T)

Day & Date: 20/10/2020

Class: T.Y.B. Pharm Semester: V

Time: 10:30am-12:00pm **Max. Marks**: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

Q I Multiple Choice Questions (MCQs)

1. S-Enantiomer of which drugs is called as Esomeprazole

a. Rabeprazole b. Omeprazole c. Lansoprazole d. None of the above

2. Which of the following anticancer drug contains planner Phenoxazone ring in their structure

- a. Vinblastine b. Doxorubicin c. Dactinomycin d. Azithromycin
- 3. Identify the Vasodilator drug which yield's **Thiocyanate** as a metabolite
- a. Minoxidil b. Dizoxide c. Hydralazine HCl d. Sodium Nitroprusside
- 4. Which of the following drugs contains the steroid ring as a basic nucleus
- a. Bumetenide b. Spiranolactone c. Aldosterone d. both b & c
- 5. Nifedipine is
- a. K+ Channel Opener b. Calcium Channel Opener
- c. Calcium Channel Blocker d. β blocker
- 6. Pteridine containing Diuretic drug
- a. Methotrexate b. Triamterene c. Acetazolamide d. Lidocaine HCl
- 7. Cyclizine is a
- a.H₂ Antagonist b.H₁ Antagonist
- c. Both H₁ and H₂ Antagonist d. None of the above
- 8. Statins acts as a
- a. Bile acid sequestrants
- b. Inhibits the incorporation of acetate in cholesterol synthesis
- c. HMG CoA Reductase inhibitors
- d. All of the above
- 9. Quinine ring is present in following antiarrhythmic drug
- a. Phenytoin b. Procainamide c. Tocainide d. Quinidine
- 10.....is an anticancer antibiotic isolated from Streptomyces verticilles
- a. Dactinomycin b. Bleomycin c. Epiubicin d. Doxorubicin

Q II Long Answers (Answer any 1 out of 2)

10

10

- 1. What is Cancer? Give the causes of cancer? Classify antineoplastic agents with suitable example from each class. Write synthesis and IUPAC Nomenclature of Methotrexate
- 2.Define Hypertension and write the detailed classification of all antihypertensive agents along with structures. Outline the synthesis and IUPAC of Methyldopate HCl

Q III Short Answers (Answer any 2 out of 3)

- 1. What is Hyperlipoproteinemia? Write a detailed classification of all antihyperlipidemic drugs along with structures from each class
- 2. Write SAR of first-generation Classical antihistamines along with examples
- 3. Write the chemistry of Carbonic acid inhibitors as a diuretic



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First Sessional Theory Examination 2021-2022

(Odd SEM)

Subject & Subject Code: MC-II (BP 501T)

Day & Date: Mon, 11/10/2021

Class: T.Y.B. Pharm

Semester: V

Time: 10:30am-12:00pm

Max. Marks: 30

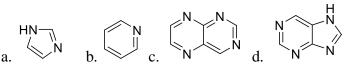
Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

Q I Multiple Choice Questions (MCQs)

- 1. Unsubstituted benzimidazole containing PPI is
 - a. Rabeprazole
 - b. Omeprazole
 - c. Lansoprazole
 - d. None of the above
- 2. Anticancer drugs of plant origin are
 - a. Vinblastine
 - b. Doxorubicin
 - c. Bleomycin
 - d. Etoposide
- 3. Identify the Vasodilator drug which yield's **Thiocyanate** as a metabolite
 - a. Minoxidil
 - b. Dizoxide
 - c. Hydralazine HCl
 - d. Sodium Nitroprusside
- 4. Which of the following drug act as high ceiling diuretics
 - a. Bumetenide
 - b. Spiranolactone
 - c. Ethacrynic Acid
 - d. Both a & c
- 5. Verapamil is
 - a. Benzothiazepine
 - b. Phenylalkylamine
 - c. 1,4-Dihydropyridine
 - d. None of the above
- 6. Triamterene has following basic nucleus



7. Buclizine is a

a. H₂ Antagonist



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- b. H₁ Antagonist
- c. Both H₁ and H₂ Antagonist
- d. None of the above
- 8. Which of the following is pyrimidine antagonist
 - a. Cytrabine
 - b. Floxuridine
 - c. 5-Flurouracil
 - d. All of the above
- 9. Reserpine is
 - a. Catecholamine Depletor
 - b. Vasodilator
 - c. ACE Inhibitor
 - d. Prolonging action potential duration
- 10.....is a peptide type of anticancer antibiotic
 - a. Dactinomycin
 - b. Bleomycin
 - c. Etoposide
 - d. Doxorubicin

Q II Long Answers (Answer any 1 out of 2)

10

- 1. Classify anticancer agents with suitable examples. Give the causes of cancer in brief. Discuss antimetabolites as an anticancer agent
- 2. What are classical antihistamines? Give chemical classification. Write SAR of first-generation Classical antihistamines along with examples

Q III Short Answers (Answer any 2 out of 3)

- 1. Classify antihypertensive drugs with example. Discuss ACE inhibitors as an antihypertensive agent
- 2. Correlate chemical structures of calcium channel blockers with biological activity and mode of action
- 3. Write Synthesis and IUPAC of
 - a. Disopyramide phosphate
 - b. Isosorbide dinitrate

Course Outcome	Question	Marks
CO 5011: Classify histaminic and antihistaminic and anticancer drugs, explain their chemistry and should be able to write chemical structures and Outline the synthesis of important drugs from these	Q.1- 1,2,7,10	19
classes	Q.2- 1	



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Level	Q.3 -2	
CO 5012: Explain general aspects of cardiovascular agents like antihypertensive, antianginal, diuretics. classify the cardiovascular agents and explain their chemistry, Nomenclature,	Q.1 - 3,4,5,6	
SAR, Mode of action, and chemical synthesis of important drug Level	Q.2 - 2	19
	Q.3 - 3	
CO 5013: Describe general aspects of anti-hyperlipidemic, anti-arrhythmic, coagulants and anticoagulants classify them and explain their chemistry, Nomenclature SAR, Mode of action, and	Q.1 - 8,9	
chemical synthesis of important drug Level	Q.2 - 0	07
	Q.3 -1	



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First Sessional Theory Examination 2021-2022

(Odd SEM)

Subject & Subject Code: MC-II (BP 501T)

Day & Date: Mon, 11/10/2021

Class: T.Y.B. Pharm

Semester: V

Time: 10:30am-12:00pm

Max. Marks: 30

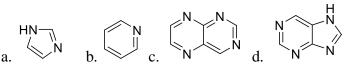
Instructions: 1. All questions are compulsory

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 - d. Etoposide
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 - d. Sodium Nitroprusside
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 - b. Spiranolactone
 - c. Ethacrynic Acid
 - d. Both a & c
- 5. Verapamil is
 - a. Benzothiazepine
 - b. Phenylalkylamine
 - c. 1,4-Dihydropyridine
 - d. None of the above
- 6. Triamterene has following basic nucleus



7. Buclizine is a

a. H₂ Antagonist



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- b. H₁ Antagonist
- c. Both H₁ and H₂ Antagonist
- d. None of the above
- 8. Which of the following is pyrimidine antagonist
 - a. Cytrabine
 - b. Floxuridine
 - c. 5-Flurouracil
 - d. All of the above
- 9. Reserpine is
 - a. Catecholamine Depletor
 - b. Vasodilator
 - c. ACE Inhibitor
 - d. Prolonging action potential duration
- 10.....is a peptide type of anticancer antibiotic
 - a. Dactinomycin
 - b. Bleomycin
 - c. Etoposide
 - d. Doxorubicin

Q II Long Answers (Answer any 1 out of 2)

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- 3. Write Synthesis and IUPAC of
 - a. Disopyramide phosphate
 - b. Isosorbide dinitrate

Course Outcome	Question	Marks
CO 5011: Classify histaminic and antihistaminic and anticancer drugs, explain their chemistry and should be able to write chemical structures and Outline the synthesis of important drugs from these	Q.1- 1,2,7,10	19
classes	Q.2- 1	



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Level	Q.3 -2	
CO 5012: Explain general aspects of cardiovascular agents like antihypertensive, antianginal, diuretics. classify the cardiovascular agents and explain their chemistry, Nomenclature,	Q.1 - 3,4,5,6	
SAR, Mode of action, and chemical synthesis of important drug Level	Q.2 - 2	19
	Q.3 - 3	
CO 5013: Describe general aspects of anti-hyperlipidemic, anti-arrhythmic, coagulants and anticoagulants classify them and explain their chemistry, Nomenclature SAR, Mode of action, and	Q.1 - 8,9	
chemical synthesis of important drug Level	Q.2 - 0	07
	Q.3 -1	



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First Sessional Theory Examination-(ODD SEM) 2022-2023

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Subj		:		Chemistry-II (B	P5011)		Day & I		:		<u> </u>	/ 11/20 te Your S		Horo
Clas		:		r B. Pharmacy			Semeste		:	V	WILL		eut No]
Time	e 	:	10:30 am	– 12:00 pm			Max. Ma	arks	:	30				<u></u>
Instru	ctions	s: 1. 3.	All questions Right hand si	are compulsory de number indicates	full marks		Draw a we Do not write						cessai	ry
QI M	ultiple		hoice Question		-									10 M
1.	Antia	ller	gic drug belon	ging to ethanolamine	class is	• •								
	Α	. D	iphenhydramir	ne B. Chlorphenir	ramine	C. Cetii	rizine	D. Rani	itid	ine				
2.	Identi	ify t	he structure											
						y s								
						$\bigvee_{N}\bigvee_{N}$								
							,CH₃							
						Y								
						H ₃ C	CH ₃							
_			lorpheniramine			C. Ranitid	ine	D. Pro	me	ethazin	e			
3.				heterocycle in										
4			role	B. furan		C. imidaze		D. thia	azo	le				
4.				lastic drug is a mitoti						1 .				
_			ulphan	B. Vincristine		C. Cytaral	oine	D. Pro	cai	bazıne	;			
5.				t anticancer drug is .		C Th:		D.M.	41	. 4 4 .				
			rouracil	B. Mercaptopur		C. Thiogu	ianine	D. Me	tno	otrexate				
6.				nthranilic acid deriva		C E4	1	D.N.						
7			semide	B. Bumetanide	•	C. Ethacry	nic acia	D. No	ne					
7.			nic nitrate	ne following class B. Barbiturate		C 1.4 diby	ydrpyridine	D har	270	diazep	ino			
8.		_	he structure	D. Darbiturate		c. 1,4-uiii	yarpyriame	D. 061	IZC	urazep	me			
0.	Identi	цуι	O O											
	H₃C√	/N_	S S-NH ₂											
	,	2	Ñ−Ñ O											
•	A. clo	onid	ine	B. epinephrine	(C. Acetazo	lamide	D.	nc	repine	phrine	e		
9.	Whic	h of	the following	drugs decreases chol	lesterol syntl	hesis by in	hibiting the	enzyme	HN	ИG-Co	A red	luctase?		
	A. Fe			B. Niacin		C. Cholest	yramine	D. Lo	ova	statin				
		•		essential for activity										
	A. Sta	atins	8	B. Fibrates	C.	Bile acid	Sequestrants	D. all	of 1	the abo	ve			
QII	Loi	ng A	Answers Ques	tion (Answer any 1	out of 2)								1	0 M
1.	Wh	at a	re antihyperter	nsive drugs? Classify	them with e	examples.	Write note o	n loop di	iur	etics.				
2.	Cla	ssif	y anti anginal o	drugs. Discuss the Mo	OA uses of 1	nitrates. O	utline synth	esis of ni	tro	glyceri	n.			
QIII	Sho	ort A	Answers Ques	ction (Answer any 2	out of 3)								1	10 M
1.	Exp	olair	n mechanism o	f proton pump inhibi	tors with ex	amples								
2.	Exp	olair	n alkylating ag	ents as antineoplastic	drugs.									
3.	Wri	ite s	ynthesis of dip	phenhydramine and p	romethazine).								
														·



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First Sessional Theory Examination-(ODD SEM) 2022-2023 (Indradhanushya Participants)

	_			(Indradhan	ushya Pa		•				
Sub		:		nemistry-II (BP501T)		Day & D				/11/2022	
Clas		:	Third Year B	. Pharmacy		Semeste		V	Writ	te Your Seat No	. Here
Tim	е	:	10:30 am – 1	2:00 pm		Max. Ma	rks :	30			
Instru	ctions	s: ^{1.} 3.	All questions are Right hand side 1	compulsory number indicates full mark	s 2	. Draw a wel Do not write				rever necessai aper	у
QI M	lultiple	e Ch	oice Questions (MCQs)							10 M
1.	Antia	llerg	gic drug belonging	to propylamine class is							
	A	. Di	phenhydramine	B. Chlorpheniramine	C. Ceti	rizine	D. Ranitio	line			
2.	Identi	fy th	ne structure								
	H ₃ C	٠N	H ₃	√s√N	NO₂ NCH₃ H						
			orpheniramine	B. Cetirizine	C. Ranitio	line	D. Prom	ethazin	e		
3.				heterocycle in the struc							
		pyrı		B. furan	C. imidaz		D. thiazo	ole			
4.				c drug is a mitotic inhibitor							
			lphan	B. Vincristine	C. Cytara	bine	D. Proca	rbazine	2		
5.			ntagonist antican								
			rouracil	B. Mercaptopurine	C. Thiogu	ianine	D. Metho	otrexat	e		
6.				ranilic acid derivative?							
			emide	B. Bumetanide	C. Ethacry	nic acid	D. None)			
7.	Isosoı	rbide	e dinitrate belongs	s to the following class							
			ic nitrate	B. Barbiturate	C. 1,4-dih	ydrpyridine	D. benzo	odiazep	oine		
8.	HO	Ty tr	CH ₃	ООН I ₂							
	A. clo	nidi	ne	B. epinephrine	C. methylo	lopa	D. norepin	ephrin	e		
9.	Whic	h of		gs decreases triglycerides b			e lipoprote	in lipas	se?		
	A. Clo				C. Cholesty	ramine	D. Lovas	statin			
10.	3,5-di	ihyd	roxyheptonoic ac	d group is essential for acti	vity in						
	A. Sta	atins]	B. Fibrates	C. Bile acid	d Sequestrant	s D. all o	f the ab	ove		
QII	Lor	ng A	nswers Question	(Answer any 1 out of 2)						1	ОМ
1.				ify them with examples. W						•	
2.	Cla	ssify	anti anginal drug	gs. Discuss the MOA and us	ses of calciu	m channel bl	ockers.				
QIII	Sho	rt A	Answers Question	(Answer any 2 out of 3)						1	0 M
1.				stamine H2 antagonists with							
2.				eneration H1-antihistamine							
3.	Wri	ite sy	ynthesis of 6-mer	captopurine and mechloeha	mine.						



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First Sessional Theory Examination-(ODD SEM) 2022-2023 (Indradhanushya Participants)

	_			(Indradhan	ushya Pa		•				
Sub		:		nemistry-II (BP501T)		Day & D				/11/2022	
Clas		:	Third Year B	. Pharmacy		Semeste		V	Writ	te Your Seat No	. Here
Tim	е	:	10:30 am – 1	2:00 pm		Max. Ma	rks :	30			
Instru	ctions	s: ^{1.} 3.	All questions are Right hand side 1	compulsory number indicates full mark	s 2	. Draw a wel Do not write				rever necessai aper	у
QI M	lultiple	e Ch	oice Questions (MCQs)							10 M
1.	Antia	llerg	gic drug belonging	to propylamine class is							
	A	. Di	phenhydramine	B. Chlorpheniramine	C. Ceti	rizine	D. Ranitio	line			
2.	Identi	fy th	ne structure								
	H ₃ C	٠N	H ₃	√s√N	NO₂ NCH₃ H						
			orpheniramine	B. Cetirizine	C. Ranitio	line	D. Prom	ethazin	e		
3.				heterocycle in the struc							
		pyrı		B. furan	C. imidaz		D. thiazo	ole			
4.				c drug is a mitotic inhibitor							
			lphan	B. Vincristine	C. Cytara	bine	D. Proca	rbazine	2		
5.			ntagonist antican								
			rouracil	B. Mercaptopurine	C. Thiogu	ianine	D. Metho	otrexat	e		
6.				ranilic acid derivative?							
			emide	B. Bumetanide	C. Ethacry	nic acid	D. None)			
7.	Isosoı	rbide	e dinitrate belongs	s to the following class							
			ic nitrate	B. Barbiturate	C. 1,4-dih	ydrpyridine	D. benzo	odiazep	oine		
8.	HO	Ty tr	CH ₃	ООН I ₂							
	A. clo	nidi	ne	B. epinephrine	C. methylo	lopa	D. norepin	ephrin	e		
9.	Whic	h of		gs decreases triglycerides b			e lipoprote	in lipas	se?		
	A. Clo				C. Cholesty	ramine	D. Lovas	statin			
10.	3,5-di	ihyd	roxyheptonoic ac	d group is essential for acti	vity in						
	A. Sta	atins]	B. Fibrates	C. Bile acid	d Sequestrant	s D. all o	f the ab	ove		
QII	Lor	ng A	nswers Question	(Answer any 1 out of 2)						1	ОМ
1.				ify them with examples. W						•	
2.	Cla	ssify	anti anginal drug	gs. Discuss the MOA and us	ses of calciu	m channel bl	ockers.				
QIII	Sho	rt A	Answers Question	(Answer any 2 out of 3)						1	0 M
1.				stamine H2 antagonists with							
2.				eneration H1-antihistamine							
3.	Wri	ite sy	ynthesis of 6-mer	captopurine and mechloeha	mine.						



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First Sessional Theory Examination-(ODD SEM) 2022-2023

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Subj		:		Chemistry-II (B	P5011)		Day & I		:		<u> </u>	/ 11/20 te Your S		Horo
Clas		:		r B. Pharmacy			Semeste		:	V	WILL		eut No]
Time	e 	:	10:30 am	– 12:00 pm			Max. Ma	arks	:	30				<u></u>
Instru	ctions	s: 1. 3.	All questions Right hand si	are compulsory de number indicates	full marks		Draw a we Do not write						cessai	ry
QI M	ultiple		hoice Question		-									10 M
1.	Antia	ller	gic drug belon	ging to ethanolamine	class is	• •								
	Α	. D	iphenhydramir	ne B. Chlorphenir	ramine	C. Cetii	rizine	D. Rani	itid	ine				
2.	Identi	ify t	he structure											
						y s								
						$\bigvee_{N}\bigvee_{N}$								
							,CH₃							
						Y								
						H ₃ C	CH ₃							
_			lorpheniramine			C. Ranitid	ine	D. Pro	me	ethazin	e			
3.				heterocycle in										
4			role	B. furan		C. imidaze		D. thia	azo	le				
4.				lastic drug is a mitoti						1 .				
_			ulphan	B. Vincristine		C. Cytaral	oine	D. Pro	cai	bazıne	;			
5.				t anticancer drug is .		C Th:		D.M.	41	. 4 4 .				
			rouracil	B. Mercaptopur		C. Thiogu	ianine	D. Me	tno	otrexate				
6.				nthranilic acid deriva		C E4	1	D.N.						
7			semide	B. Bumetanide	•	C. Ethacry	nic acia	D. No	ne					
7.			nic nitrate	ne following class B. Barbiturate		C 1.4 diby	ydrpyridine	D har	270	diazep	ino			
8.		_	he structure	D. Darbiturate		c. 1,4-uiii	yarpyriame	D. 061	IZC	urazep	me			
0.	Identi	цуι	O O											
	H₃C√	/N_	S S-NH ₂											
	,	2	Ñ−Ñ O											
•	A. clo	onid	ine	B. epinephrine	(C. Acetazo	lamide	D.	nc	repine	phrine	e		
9.	Whic	h of	the following	drugs decreases chol	lesterol syntl	hesis by in	hibiting the	enzyme	HN	ИG-Co	A red	luctase?		
	A. Fe			B. Niacin		C. Cholest	yramine	D. Lo	ova	statin				
		•		essential for activity										
	A. Sta	atins	8	B. Fibrates	C.	Bile acid	Sequestrants	D. all	of 1	the abo	ve			
QII	Loi	ng A	Answers Ques	tion (Answer any 1	out of 2)								1	0 M
1.	Wh	at a	re antihyperter	nsive drugs? Classify	them with e	examples.	Write note o	n loop di	iur	etics.				
2.	Cla	ssif	y anti anginal o	drugs. Discuss the Mo	OA uses of 1	nitrates. O	utline synth	esis of ni	tro	glyceri	n.			
QIII	Sho	ort A	Answers Ques	ction (Answer any 2	out of 3)								1	10 M
1.	Exp	olair	n mechanism o	f proton pump inhibi	tors with ex	amples								
2.	Exp	olair	n alkylating ag	ents as antineoplastic	drugs.									
3.	Wri	ite s	ynthesis of dip	phenhydramine and p	romethazine).								
														·



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Subject : Medicinal Chemistry-II (BP501T) Day & Date : Mon,07/1 Class : Third Year B. Pharmacy Semester : V Write Time : 10:30 am - 12:00 pm Max. Marks : 30 Image: Semester Image: Semester : V Write Instructions I. All questions are compulsory 3. Right hand side number indicates full marks 2. Draw a well labeled diagram where 4. Do not write/tick on the question page 4. Do not write/tick on the question page 4.	11/2022 Your Seat No. Here
Time : 10:30 am - 12:00 pm Max. Marks : 30 Instructions 1. All questions are compulsory 2. Draw a well labeled diagram where 4. Do not write/tick on the question page	Your Seat No. Here
Instructions: 1. All questions are compulsory 3. Right hand side number indicates full marks 4. Do not write/tick on the question page	
3. Right hand side number indicates full marks 4. Do not write/tick on the question pay	
OI Multiple Chaige Questions (MCOs)	
Q1 whitiple Choice Questions (wicQs)	10 M
1. Antiallergic drug belonging to ethanolamine class is	
A. Diphenhydramine B. Chlorpheniramine C. Cetirizine D. Ranitidine	
2. Identify the structure	
H ₃ C N CH ₃	
A. Chlorpheniramine B. Cetirizine C. Ranitidine D. Promethazine	
3. Ranitidine contains heterocycle in the structure	
A. pyrrole B. furan C. imidazole D. thiazole	
4. The following antineoplastic drug is a mitotic inhibitor and causes metaphase arrest.	
A. Busulphan B. Vincristine C. Cytarabine D. Procarbazine	
5. A pyrimidine antagonist anticancer drug is	
A. Fluorouracil B. Mercaptopurine C. Thioguanine D. Methotrexate	
6. Which of following is anthranilic acid derivative?	
A. Furosemide B. Bumetanide C. Ethacrynic acid D. None	
7. Nifedipine belongs to the following class	
A. Organic nitrate B. Barbiturate C. 1,4-dihydrpyridine D. benzodiazepine	
8. Identify the structure $H_3C = \begin{pmatrix} H & S & S & NH_2 \\ N-N & O & N-N \end{pmatrix}$	
A. clonidine B. epinephrine C. Acetazolamide D. norepinephrine	
9. Which of the following drugs decreases cholesterol synthesis by inhibiting the enzyme HMG-CoA reduced the following drugs decreases cholesterol synthesis by inhibiting the enzyme HMG-CoA reduced the following drugs decreases cholesterol synthesis by inhibiting the enzyme HMG-CoA reduced the following drugs decreases cholesterol synthesis by inhibiting the enzyme HMG-CoA reduced the following drugs decreases cholesterol synthesis by inhibiting the enzyme HMG-CoA reduced the following drugs decreases cholesterol synthesis by inhibiting the enzyme HMG-CoA reduced the following drugs decreases cholesterol synthesis by inhibiting the enzyme HMG-CoA reduced the following drugs decreases cholesterol synthesis by inhibiting the enzyme HMG-CoA reduced the following drugs decreases the following drugs dr	ctase?
A. Fenofibrate B. Niacin C. Cholestyramine D. Lovastatin	
10. Isobutyric acid group is essential for activity in	
A. Statins B. Fibrates C. Bile acid Sequestrants D. all of the above	
QII Long Answers Question (Answer any 1 out of 2)	10 M
1. What are antihypertensive drugs? Classify them with examples. Write note on loop diuretics.	
2. Classify anti anginal drugs. Discuss the MOA uses of nitrates. Outline synthesis of nitroglycerin.	1
QIII Short Answers Question (Answer any 2 out of 3)	10 M
1. Explain mechanism of proton pump inhibitors with examples	
2. Explain alkylating agents as antineoplastic drugs.	
3. Write synthesis of diphenhydramine and promethazine.	



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Subject	Subject : Medicinal Chemistry-II (BP501T)			Day & Date	: Monday, 30/10/2023		
Class	:	Third Year B. Pharmacy		Semester	:	V	Write Your Seat No. Here
Time	:	10:30 am – 12:00 noon		Max. Marks	:	30	
Instructions: 1. All questions are compulsory 2. Draw a well labeled diagram wherever necessary 3. Right hand side number indicates full marks 4. Do not write/tick on the question paper							

Objective Type Questions $(5 \times 2) = 5 \times 2 = 10$ (Answer all the questions)	10 M
Describe histamine receptors with respect to their distribution & role.	(LL3, CO1)
How antimetabolites will function as an anticancer agents ?	(LL3, CO1)
Write synthetic scheme of diphenhydramine and nitroglycerin.	(LL3, CO1,2)
Draw renin angiotensin system and represent site of mechanism of action of captopril.	(LL3, CO2)
Draw the structure and write uses of ethacrynic acid / warfarin.	(LL3, CO2)
Long Answers Question (Answer any 1 out of 2)	10 M
What is cancer? Classify antineoplastic agents and note on alkylating agents.	(LL4, CO1)
Classify antihistaminic agents. Explain mechanism of Gastric Proton Pump Inhibitors with suitable diagr	am & examples. (LL4, CO1)
Short Answers Question (Answer any 2 out of 3)	10M
Classify diuretic agents and note on Carbonic anhydrase Inhibitors.	(LL2, CO2)
Write in brief about vasodilators as antianginal agents and note on anti-hyperlipidemic agents.	(LL4, CO2)
Note on Calcium channel blockers as an antianginal agents.	(LL2, CO2)
	Describe histamine receptors with respect to their distribution & role. How antimetabolites will function as an anticancer agents? Write synthetic scheme of diphenhydramine and nitroglycerin. Draw renin angiotensin system and represent site of mechanism of action of captopril. Draw the structure and write uses of ethacrynic acid / warfarin. Long Answers Question (Answer any 1 out of 2) What is cancer? Classify antineoplastic agents and note on alkylating agents. Classify antihistaminic agents. Explain mechanism of Gastric Proton Pump Inhibitors with suitable diagr. Short Answers Question (Answer any 2 out of 3) Classify diuretic agents and note on Carbonic anhydrase Inhibitors. Write in brief about vasodilators as antianginal agents and note on anti-hyperlipidemic agents.



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Subject	Subject : Medicinal Chemistry-II (BP501T)			Day & Date	: Monday, 30/10/2023		
Class	:	Third Year B. Pharmacy		Semester	:	V	Write Your Seat No. Here
Time	:	10:30 am – 12:00 noon		Max. Marks	:	30	
Instructions: 1. All questions are compulsory 2. Draw a well labeled diagram wherever necessary 3. Right hand side number indicates full marks 4. Do not write/tick on the question paper							

Objective Type Questions $(5 \times 2) = 5 \times 2 = 10$ (Answer all the questions)	10 M
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Write synthetic scheme of diphenhydramine and nitroglycerin.	(LL3, CO1,2)
Draw renin angiotensin system and represent site of mechanism of action of captopril.	(LL3, CO2)
Draw the structure and write uses of ethacrynic acid / warfarin.	(LL3, CO2)
Long Answers Question (Answer any 1 out of 2)	10 M
What is cancer? Classify antineoplastic agents and note on alkylating agents.	(LL4, CO1)
Classify antihistaminic agents. Explain mechanism of Gastric Proton Pump Inhibitors with suitable diagr	am & examples. (LL4, CO1)
Short Answers Question (Answer any 2 out of 3)	10M
Classify diuretic agents and note on Carbonic anhydrase Inhibitors.	(LL2, CO2)
Write in brief about vasodilators as antianginal agents and note on anti-hyperlipidemic agents.	(LL4, CO2)
Note on Calcium channel blockers as an antianginal agents.	(LL2, CO2)
	Describe histamine receptors with respect to their distribution & role. How antimetabolites will function as an anticancer agents? Write synthetic scheme of diphenhydramine and nitroglycerin. Draw renin angiotensin system and represent site of mechanism of action of captopril. Draw the structure and write uses of ethacrynic acid / warfarin. Long Answers Question (Answer any 1 out of 2) What is cancer? Classify antineoplastic agents and note on alkylating agents. Classify antihistaminic agents. Explain mechanism of Gastric Proton Pump Inhibitors with suitable diagr. Short Answers Question (Answer any 2 out of 3) Classify diuretic agents and note on Carbonic anhydrase Inhibitors. Write in brief about vasodilators as antianginal agents and note on anti-hyperlipidemic agents.



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Subject	:	Medicinal Chemistry-II (BP501T)	Day & Date : Monday, 30/10/2					
Class	:	Third Year B. Pharmacy		Semester	:	V	Write Your Seat No. Here	
Time	:	10:30 am – 12:00 noon		Max. Marks	:	30		
Instructions	3.	All questions are compulsory Right hand side number indicates full marks		Draw a well labele Do not write/tick of			n wherever necessary tion paper	

Objective Type Questions $(5 \times 2) = 5 \times 2 = 10$ (Answer all the questions)	10 M
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Write synthetic scheme of diphenhydramine and nitroglycerin.	(LL3, CO1,2)
Draw renin angiotensin system and represent site of mechanism of action of captopril.	(LL3, CO2)
Draw the structure and write uses of ethacrynic acid / warfarin.	(LL3, CO2)
Long Answers Question (Answer any 1 out of 2)	10 M
What is cancer? Classify antineoplastic agents and note on alkylating agents.	(LL4, CO1)
Classify antihistaminic agents. Explain mechanism of Gastric Proton Pump Inhibitors with suitable diagr	am & examples. (LL4, CO1)
Short Answers Question (Answer any 2 out of 3)	10M
Classify diuretic agents and note on Carbonic anhydrase Inhibitors.	(LL2, CO2)
Write in brief about vasodilators as antianginal agents and note on anti-hyperlipidemic agents.	(LL4, CO2)
Note on Calcium channel blockers as an antianginal agents.	(LL2, CO2)
	Describe histamine receptors with respect to their distribution & role. How antimetabolites will function as an anticancer agents? Write synthetic scheme of diphenhydramine and nitroglycerin. Draw renin angiotensin system and represent site of mechanism of action of captopril. Draw the structure and write uses of ethacrynic acid / warfarin. Long Answers Question (Answer any 1 out of 2) What is cancer? Classify antineoplastic agents and note on alkylating agents. Classify antihistaminic agents. Explain mechanism of Gastric Proton Pump Inhibitors with suitable diagr. Short Answers Question (Answer any 2 out of 3) Classify diuretic agents and note on Carbonic anhydrase Inhibitors. Write in brief about vasodilators as antianginal agents and note on anti-hyperlipidemic agents.



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Subject	:	Medicinal Chemistry-II (BP501T)	Day & Date : Monday, 30/10/2					
Class	:	Third Year B. Pharmacy		Semester	:	V	Write Your Seat No. Here	
Time	:	10:30 am – 12:00 noon		Max. Marks	:	30		
Instructions	3.	All questions are compulsory Right hand side number indicates full marks		Draw a well labele Do not write/tick of			n wherever necessary tion paper	

Objective Type Questions $(5 \times 2) = 5 \times 2 = 10$ (Answer all the questions)	10 M
Describe histamine receptors with respect to their distribution & role.	(LL3, CO1)
How antimetabolites will function as an anticancer agents ?	(LL3, CO1)
Write synthetic scheme of diphenhydramine and nitroglycerin.	(LL3, CO1,2)
Draw renin angiotensin system and represent site of mechanism of action of captopril.	(LL3, CO2)
Draw the structure and write uses of ethacrynic acid / warfarin.	(LL3, CO2)
Long Answers Question (Answer any 1 out of 2)	10 M
What is cancer? Classify antineoplastic agents and note on alkylating agents.	(LL4, CO1)
Classify antihistaminic agents. Explain mechanism of Gastric Proton Pump Inhibitors with suitable diagr	am & examples. (LL4, CO1)
Short Answers Question (Answer any 2 out of 3)	10M
Classify diuretic agents and note on Carbonic anhydrase Inhibitors.	(LL2, CO2)
Write in brief about vasodilators as antianginal agents and note on anti-hyperlipidemic agents.	(LL4, CO2)
Note on Calcium channel blockers as an antianginal agents.	(LL2, CO2)
	Describe histamine receptors with respect to their distribution & role. How antimetabolites will function as an anticancer agents? Write synthetic scheme of diphenhydramine and nitroglycerin. Draw renin angiotensin system and represent site of mechanism of action of captopril. Draw the structure and write uses of ethacrynic acid / warfarin. Long Answers Question (Answer any 1 out of 2) What is cancer? Classify antineoplastic agents and note on alkylating agents. Classify antihistaminic agents. Explain mechanism of Gastric Proton Pump Inhibitors with suitable diagr. Short Answers Question (Answer any 2 out of 3) Classify diuretic agents and note on Carbonic anhydrase Inhibitors. Write in brief about vasodilators as antianginal agents and note on anti-hyperlipidemic agents.



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First Sessional Theory Examination 2020-2021 (Odd SEM)

Subject & Subject Code: Pharmacognosy & Phytochemistry-II (BP504T)

Day & Date: Friday, 23/10/2020

Class: T.Y. B. Pharmacy

Time: 10: 30 am to 12:00 noon

Semester: V

Max. Marks: 30

2. Explain Isolation, Identification of Artemisin and Glycyrhetinic acid

3. Draw well label T.S of Cinnamon and Coriander

Instructions: 1. All questions are compulsory 2. Draw a well labeled diagram wherever necessary 3. Right hand side number indicates full marks QI Multiple Choice Questions (MCQs)	10
1. The melting point of menthol is	10
a) 41-44 °C b) 40-43 °C c) 41-45 °C d) 42-45 °C	
2 mobile phase used for identification of glycyrrhetinic acid	
	Tolyono, Woton
a) Ethyl acetate: Chloroform b) Methanol: Choloroform c) Methanol: Water d)	Toruene: water
3. Vitali morin test is positive test for	
a) Vincristine b)Reserpine c) Atropine d) Morphine	
4 is the precursor for biosynthesis of Tropane alkaloids	
a) Ornithine b) Aspargine c) Methionine d) Leucine	
5 detector are called counters	
a) Geiger Muller b) Autoradiograph c) Spectrophotometer d) Radio paper ch	nromatography
6. Autoradiography enables characterization of	
a) Functional group b) Receptors c) intermediates d) None of all	
7. Which of the following is Not an alkaloid?	
a) Quinine b) Reserpine c) Morphine d) Diosgenin	
8. How many vittae cells are present in Fennel fruit?	
a) 4 b) 6 c) 8 d) 10	
9 test is used for identification of tannins.	
a) Keller Kiliani b) Goldbeater's Skin c) Vitali Morin d) Shinoda	
10. Calcium oxalate crystals are absent in	
a) Vinca b) Datura c) Rauwolfia d) Opium	
QII Long Answers Question (Answer any 1 out of 2)	10
1. Describe Shikimic Acid Pathway	
2. Describe Phytopharmacognosy and Cultivation, Collection and Preparation	of Opium
QIII Short Answers Question (Answer any 2 out of 3)	10
1. Write B.S, C.C and Uses of Digitalis and Vinca	



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First Sessional Theory Examination 2020-2021 (Odd SEM)

Subject & Subject Code: Pharmacognosy & Phytochemistry-II (BP504T)

Day & Date: Friday, 23/10/2020

Class: T.Y. B. Pharmacy

Time: 10: 30 am to 12:00 noon

Semester: V

Max. Marks: 30

2. Explain Isolation, Identification of Artemisin and Glycyrhetinic acid

3. Draw well label T.S of Cinnamon and Coriander

Instructions: 1. All questions are compulsory 2. Draw a well labeled diagram wherever necessary 3. Right hand side number indicates full marks QI Multiple Choice Questions (MCQs)	10
1. The melting point of menthol is	10
a) 41-44 °C b) 40-43 °C c) 41-45 °C d) 42-45 °C	
2 mobile phase used for identification of glycyrrhetinic acid	
	Tolyono, Woton
a) Ethyl acetate: Chloroform b) Methanol: Choloroform c) Methanol: Water d)	Toruene: water
3. Vitali morin test is positive test for	
a) Vincristine b)Reserpine c) Atropine d) Morphine	
4 is the precursor for biosynthesis of Tropane alkaloids	
a) Ornithine b) Aspargine c) Methionine d) Leucine	
5 detector are called counters	
a) Geiger Muller b) Autoradiograph c) Spectrophotometer d) Radio paper ch	nromatography
6. Autoradiography enables characterization of	
a) Functional group b) Receptors c) intermediates d) None of all	
7. Which of the following is Not an alkaloid?	
a) Quinine b) Reserpine c) Morphine d) Diosgenin	
8. How many vittae cells are present in Fennel fruit?	
a) 4 b) 6 c) 8 d) 10	
9 test is used for identification of tannins.	
a) Keller Kiliani b) Goldbeater's Skin c) Vitali Morin d) Shinoda	
10. Calcium oxalate crystals are absent in	
a) Vinca b) Datura c) Rauwolfia d) Opium	
QII Long Answers Question (Answer any 1 out of 2)	10
1. Describe Shikimic Acid Pathway	
2. Describe Phytopharmacognosy and Cultivation, Collection and Preparation	of Opium
QIII Short Answers Question (Answer any 2 out of 3)	10
1. Write B.S, C.C and Uses of Digitalis and Vinca	



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First Sessional Theory Examination-(ODD SEM) 2022-2023

Subj	ibject: Pharmacognosy & Phytochemistry-II (BP504T)					ate	:	Fric	day, 1	1/11	/202	22			
Class	s	:		ear B. Pha	rmacy			Semeste	er	:	V	Write	Your	Seat	No.
Time	ne : 10:30 am – 12:00 pm					Max. Marks : 30 Here									
Instru	ctions	1.	All question	ns are compu	llsory r indicates f	full marks	2	2. Draw a w						=== essarį	y
QI M	I Multiple Choice Questions (MCQs) 4. Do not write/tick on the question paper 10 M														
1.	Uridylyl transferase is an enzyme involved in biosynthesis of (CO1, Level-2)														
A. Gly	cosio	les		B. Alka	loids		C. Irio	loids	D. T	erpen	oids				
2.	The t	ent	tative prec	ursor is als	so called		(CO1	, Level-2)							
A. In	terme	edia	ate	B. Presu	amed prec	ursor	C. Bo	th of these	D. N	lone c	of thes	se			
3.	Shiki	imi	c acid path	nway	(CO1,	Level-2)									
A. Gi	ves t	hre	e aromatic	amino acid	d B. C6-C	C3 units	C. No	ne of these	D.	All of	these				
4.	Aceta	ate	melonate a	and acetate	e mevalona	ite pathv	ways are	same. (CO	1, Leve	1-2)					
A. Ye	es			B. No											
5.	Sterc	ida	d moieties	are biosynt	thesized in	plants	from	(CO	l, Leve	1-2)					
Á.	Squa	aler	ne	B. Hero	oine		C. Cho	olesterol	D. Tr	yptop	han				
6.			plant b	elong to the	e family: S	olanacea	ae (CO2,	Level-3)							
A. Or	oium			B. Chot	achand		C. Dead	dly night S	hade I	D. Cat	harar	nthus			
7.	Tr	opa	ane alkaloi	ids present	in	(CO2	2, Level-3)							
A. Sa	rpag	anc	lha	B. Afu			C. Vinca	a	D. No	ne of	all				
8.	Euge	nia	caryophyi	llus belong	to the fam	ily:		(CO2, Leve	1-3)						
A. Ur	nbell	ifer	ae	B. Myrta	aceae		C. Laur	aceae	D. Zi	nzibe	racea	e			
9.	Whic	h o	of the drug	act as den	tal analges	sic? (CO	2, Level-3	3)							
A. Ci	nnan	non	Į.	B. Clove			C. Fenn	e1	D. Co	oriand	ler				
10.	is the precursor for the biosynthesis of various steroidal drugs/harmones.														
A. Di	A. Digoxin B. Glycyrrhizinic acid C. Diosgnin D. Sennoside														
QII	QII Long Answers Question (Answer any 1 out of 2) 10 M														
1.	1. Describe the biosynthesis of Secondary Plant Metabolites via Shikimic Acid Pathway. (CO1, Level-2)														
2.	2. Write a brief account on Utilization of Radioactive Isotopes in biogenetic study. (CO1, Level-2)														
QIII	HII Short Answers Question (Answer any 2 out of 3) 10 M														
1.	Wri	te a	bout Chemi	cal constitue	nts and Uses	s of Vinca	a, Rauwolf	ia and Opiur	n. (CO2	2, Leve	el-3)				
2.	Wri	te t	he Biologica	al Source, Ch	nemical cons	stituents a	and Uses of	f Steroidal G	lycosid	e cont	aining	drug. (0	CO2, L	evel-3	3)
3.	Def	ine	Terpenes. V	Vrite pharma	cognostical	account o	of Cinnamo	on. (CO2, Le	vel-3)						



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First Sessional Theory Examination-(ODD SEM) 2022-2023

Subj	ect	:	Pharmad (BP5047	cognosy &	ง Phytoch	nemistr	y-II	Day & D	ate	:	Fric	day, 1	1/11	/202	22
Class	s	:		ear B. Pha	rmacy			Semeste	er	:	V	Write	Your	Seat	No.
Time	9	:	10:30 ar	m – 12:00	pm			Max. Ma	arks	:	30	Here			
Instru	tructions: 1. All questions are compulsory 2. Draw a well labeled diagram wherever necessary 3. Right hand side number indicates full marks 4. Do not write/tick on the question paper														
QI M	ultip			estions (M		att marks	<u>, </u>	. Do not with	ic, uch t	on are	quesa	ion pap	<u> </u>	1	о м
1.	Uridy	lyl	transferase i	s an enzyme	involved in	biosynth	esis of	(CO	1, Level	1-2)					
A. Gly	cosio	les		B. Alka	loids		C. Irio	loids	D. T	erpen	oids				
2.	The t	ent	tative prec	ursor is als	so called		(CO1	, Level-2)							
A. In	terme	edia	ate	B. Presu	amed prec	ursor	C. Bo	th of these	D. N	lone c	of thes	se			
3.	Shiki	imi	c acid path	nway	(CO1,	Level-2)									
A. Gi	ves t	hre	e aromatic	amino acid	d B. C6-C	C3 units	C. No	ne of these	D.	All of	these				
4.	Aceta	ate	melonate a	and acetate	e mevalona	ite pathv	ways are	same. (CO	1, Leve	1-2)					
A. Ye	es			B. No											
5.	Sterc	ida	d moieties	are biosynt	thesized in	plants	from	(CO	l, Leve	1-2)					
Á.	A. Squalene B. Heroine C. Cholesterol D. Tryptophan														
6.	plant belong to the family: Solanaceae (CO2, Level-3)														
A. Or	oium			B. Chot	achand		C. Dead	dly night S	hade I	D. Cat	harar	nthus			
7.	Tr	opa	ane alkaloi	ids present	in	(CO2	2, Level-3)							
A. Sa	rpag	anc	lha	B. Afu			C. Vinca	a	D. No	ne of	all				
8.	Euge	nia	caryophyi	llus belong	to the fam	ily:		(CO2, Leve	1-3)						
A. Ur	nbell	ifer	ae	B. Myrta	aceae		C. Laur	aceae	D. Zi	nzibe	racea	e			
9.	Whic	h o	of the drug	act as den	tal analges	sic? (CO	2, Level-3	3)							
A. Ci	nnan	non	Į.	B. Clove			C. Fenn	e1	D. Co	oriand	ler				
10.			is the p	recursor fo	or the biosy	ynthesis	of variou	ıs steroidal	drugs	/harr	nones	8.			
A. Di	goxin	1		B. Glycy:	rrhizinic a	cid	C. Diosg	gnin	D. Se	nnosi	.de				
QII	Lor	ng A	nswers Qu	estion (Answ	wer any 1 o	ut of 2)								10	ОМ
1.	Des	crit	be the biosyr	nthesis of Sec	condary Plan	nt Metabo	olites via S	hikimic Acid	l Pathw	ay. (C	01, Le	evel-2)			
2.	Wri	te a	brief accou	nt on Utilizat	tion of Radi	oactive Is	sotopes in l	biogenetic st	udy. (C	01, L	evel-2)			
QIII	Sho	rt A	Answers Qu	uestion (Ansv	wer any 2 o	out of 3)								10	0 M
1.	Wri	te a	bout Chemi	cal constitue	nts and Uses	s of Vinca	a, Rauwolf	ia and Opiur	n. (CO2	2, Leve	el-3)				
2.	Wri	te t	he Biologica	al Source, Ch	nemical cons	stituents a	and Uses of	f Steroidal G	lycosid	e cont	aining	drug. (0	CO2, L	evel-3	3)
3.	Def	ine	Terpenes. V	Vrite pharma	cognostical	account o	of Cinnamo	on. (CO2, Le	vel-3)						



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Subject	:	Pharmacognosy & Phytochemistry II (BP504T)	Day & Date	:	Thur	hursday, 2/11/2023			
Class	:	Third Year B. Pharmacy	Semester	:	V	Write	Your	Seat	No.
Time	:	10:30 am to 12;00 noon	Max. Marks	:	30	Here]

Instruc	uctions: 1. All questions are compulsory 2. Draw a well-labeled 3. Right-hand side number indicates full marks 4. Do not write/tick on	d diagram wherever necessary the question paper	
Q. I:	I: Objective type questions. (Write precisely)	,,	10 M
1	A plant in Amazon Forest found to contain a novel phytoconstituent. You	ou are I/C of a plant resear	rch lab.
	What would you do to confirm the tentative biosynthetic pathways?	(CO1, LL	1)
2	Define primary and secondary plant metabolites.	(CO1	, LL1)
3A	Explain acetate pathway. What metabolites are formed from this pathwa	ny? (CO1	, LL1)
3B	Write botanical source of a sweet expectorant given in your syllabus.	(CO2	, LL1)
4	Define tannins with examples.	(CO2	, LL1)
5	What are the uses of senna? Write its biological sources also.	(CO2	, LL1)
Q. II	II: Long Answers Questions (Answer any 1 out of 2)		10 M
1. Do	Describe the biosynthesis of aromatic and aliphatic amino acids via shikimi		
	How biosynthetic pathways are traced? Explain competitive feeding an mples. (CO1, LL5)	`	thod with
Q. I	III: Short Answers Questions (Answer any 2 out of 3)		10 M
1.	Write complete biological source, chemical constituents and uses of b	-	aloids. 2, LL5)
2.	Write complete biological source, chemical constituents and uses of constituents and uses of constituents and uses of constituents.	digitalis and dioscorea.	,
3.	Write complete biological source, chemical constituents and uses of g	`	2, LL5) 2, LL5)



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Mapping of Course Outcome with First Sessional Exam

Course Outcome	Question	Marks
CO 504.1: Understand basic metabolic pathways and formation of different primary & secondary metabolites through different pathways besides learning how these pathways are traced. Level 2 (Understanding)	Q.1 – 1,2,3,4,5 Q.2 – 1,2	15
CO 504.2: Explain biological sources, chemistry and uses of various secondary metabolites belonging to alkaloids, glycosides, phenolics and others. Level 3 (Application)	Q.1 – 6,7,8,9,10 Q.3 – 1.2.3	15



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Subject	:	Pharmacognosy & Phytochemistry II (BP504T)	Day & Date	:	Thur	hursday, 2/11/2023			
Class	:	Third Year B. Pharmacy	Semester	:	V	Write	Your	Seat	No.
Time	:	10:30 am to 12;00 noon	Max. Marks	:	30	Here]

Instruc	uctions: 1. All questions are compulsory 2. Draw a well-labeled 3. Right-hand side number indicates full marks 4. Do not write/tick on	d diagram wherever necessary the question paper	
Q. I:	I: Objective type questions. (Write precisely)	,,	10 M
1	A plant in Amazon Forest found to contain a novel phytoconstituent. You	ou are I/C of a plant resear	rch lab.
	What would you do to confirm the tentative biosynthetic pathways?	(CO1, LL	1)
2	Define primary and secondary plant metabolites.	(CO1	, LL1)
3A	Explain acetate pathway. What metabolites are formed from this pathwa	ny? (CO1	, LL1)
3B	Write botanical source of a sweet expectorant given in your syllabus.	(CO2	, LL1)
4	Define tannins with examples.	(CO2	, LL1)
5	What are the uses of senna? Write its biological sources also.	(CO2	, LL1)
Q. II	II: Long Answers Questions (Answer any 1 out of 2)		10 M
1. Do	Describe the biosynthesis of aromatic and aliphatic amino acids via shikimi		
	How biosynthetic pathways are traced? Explain competitive feeding an mples. (CO1, LL5)	`	thod with
Q. I	III: Short Answers Questions (Answer any 2 out of 3)		10 M
1.	Write complete biological source, chemical constituents and uses of b	-	aloids. 2, LL5)
2.	Write complete biological source, chemical constituents and uses of constituents and uses of constituents and uses of constituents.	digitalis and dioscorea.	,
3.	Write complete biological source, chemical constituents and uses of g	`	2, LL5) 2, LL5)



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Mapping of Course Outcome with First Sessional Exam

Course Outcome	Question	Marks
CO 504.1: Understand basic metabolic pathways and formation of different primary & secondary metabolites through different pathways besides learning how these pathways are traced. Level 2 (Understanding)	Q.1 – 1,2,3,4,5 Q.2 – 1,2	15
CO 504.2: Explain biological sources, chemistry and uses of various secondary metabolites belonging to alkaloids, glycosides, phenolics and others. Level 3 (Application)	Q.1 – 6,7,8,9,10 Q.3 – 1.2.3	15



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Subject	:	Pharmacognosy & Phytochemistry II (BP504T)	Day & Date	:	Thur	nursday, 2/11/2023			
Class	:	Third Year B. Pharmacy	Semester	:	V	Write	Your	Seat	No.
Time	:	10:30 am to 12;00 noon	Max. Marks	:	30	Here			J

Instruc	tions: 1. All questions are compulsory 2. Draw a well-labeled diagram wherever new 3. Right-hand side number indicates full marks 4. Do not write/tick on the question paper	cessary
Q. I:	Objective type questions. (Write precisely)	10 M
1	A plant in Amazon Forest found to contain a novel phytoconstituent. You are I/C of a plant	t research lab.
	What would you do to confirm the tentative biosynthetic pathways? (CC	01, LL1)
2	Define primary and secondary plant metabolites.	(CO1, LL1)
3A	Explain acetate pathway. What metabolites are formed from this pathway?	(CO1, LL1)
3B	Write botanical source of a sweet expectorant given in your syllabus.	(CO2, LL1)
4	Define tannins with examples.	(CO2, LL1)
5	What are the uses of senna? Write its biological sources also.	(CO2, LL1)
Q. II	: Long Answers Questions (Answer any 1 out of 2)	10 M
1. De	escribe the biosynthesis of aromatic and aliphatic amino acids via shikimic acid pathway and	
1	ow biosynthetic pathways are traced? Explain competitive feeding and precursor production ples. (CO1, LL5)	(CO1, LL5) act method with
Q. Il	I: Short Answers Questions (Answer any 2 out of 3)	10 M
1.	Write complete biological source, chemical constituents and uses of belladonna and opin	um alkaloids. (CO2, LL5)
2.	Write complete biological source, chemical constituents and uses of digitalis and diosco	rea.
3.	Write complete biological source, chemical constituents and uses of ginger and clove.	(CO2, LL5) (CO2, LL5)



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Mapping of Course Outcome with First Sessional Exam

Question	Marks
Q.1 – 1,2,3,4,5	
	15
Q.2 – 1,2	
Q.1 - 6,7,8,9,10	
	15
Q.3 – 1.2.3	13
	Q.1 – 1,2,3,4,5 Q.2 – 1,2 Q.1 – 6,7,8,9,10

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Institute of Pharmacy, Dhule

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

First Sessional Theory Examination 2019-2020 Day & Date Subject Pharmaceutical Analysis 03/10/2019 Class T Y B. Pharmacy Semester V Max. Marks Time 10:30 am-12:00 pm 30 Instructions: 1. All questions are compulsory 2. Draw a well labelled diagram wherever necessary 3. Right hand side number indicates full marks Q.1 Multiple Choice Questions [10] 1. According to Lorry-Bronsted, bases are a. Electron pair donor b. Electron pair acceptor c. Proton donor d. Proton acceptor 2. Aprotic Solvents are bothandCharacters a. Aprotic, Protophillic b. Protophillic, Protogenic c. Protogenic, Aprotic d. None of the above 3.is most suitable method to analysed Weak acid and Weak base a. Aqueous titration b. Non-aqueous titration c. Precipitation titration d. Complexometric titration 4. Normality is a. 1 mole / lit of solution b. 1 g / lit. of solution c. M.W. of solute in g / lit. of solution d. 1 g / lit. of solution 5. Argentometric titrations mainly utilizes as a titrant. b. 0.1 M sodium hydroxide a. 0.1 N perchloric acid c. 0.1 N Silver chloride d. None of the above 6. Accuracy is expressed by a. Correctness of measurement b. Standard value c. Reproducibility of measurement d. True value 7. is a compound of sufficient purity from which a standard solution can be prepared by direct weighing of a quantity of it, followed by dilution to give a defined volume of solution. a. External standard b. Primary standard c. Secondary standard d. a & c both are the methods of minimisation of error a. Amplification methods b. Standard addition d. All of the above c. Internal standards 9. Acetone is a solvent a. Protophillic b. Protogenic c. Amphiprotic d. Aprotic 10. Dichloroflurescein is indicator a. Basic b. Adsorption c. Acidic & Basic both d. None of the above Q.2. Answer in detail of following (any one) [10] a Explain the various titration curves with suitable example b Describe End point determination methods in Precipitation titration Answer the following short questions (any two) ' Q.3. [10] a What are primary and secondary standards? Explain theirs types with suitable example b Write short note on Errors.

c Define non aqueous titrations? Explain the types of solvent used.

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Shri. Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

First Sessional Theory Examination 2019-2020

Subject:	P'cognosy	& Phytochem-II	(BP504T)
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Day & Date: Monday, 30/9/2019

a) Mulethi b) Sadafuli c) Catechu d) Taxus

studies.

Class: Third Year B.Pharm Time: 10:30 am to 12: noon

Semester: V Max. Marks: 30

Instructions: 1. All questions are compulsory	
2. Draw a well labeled diagram wherever necessary	
3. Right hand side number indicates full marks	
QI Multiple Choice Questions (MCQs)	10
1. Keller-Kiliani test is used for identification of:	
a) Sennoside b) Taxol c) Digitoxose	d) Caffeine
2. Artemesin is also known as:	
a) Kino tree b) Qninghao c) Peru, d) vir	ıca
3 type of ca-oxalate are present is coriander fruit.	
a) Rosette b) Prism c) Cylindrical	d) Shperical
4. Guggul contains:	
a) Oleo gum b) Oleo-gum-resin c) Oleo resi	n d) gum-resin
5. On addition of a drop of to a drop of volatile oil pr	oduce pale green
colour.	
a) Acetic acid b) Ferric chloride c) Iodine d) Ni	tric acid
6. Santonica means:	
a) Worm seed b) Mentha c) Jesthmadh d) Yam	
7. Caryophyllus is the species of:	*
a) Sadafuli b) Mulethi c) Bari sauf d) Catechu	
8. Guggul plant is propagated by:	
a) Stolons b) Stem c) Roots d) Suckers	* 3 €
9. Dioscorea is also known as:	
a) Radix b) Musabbar c) Deadly night shade	
is the precursor for the biosynthesis of corticostero	oids.
a) Digitalis b) Yam c) Guggul d) Mulethi	
QII Long Answers (Answer any 1 out of 2)	10
1. Describe in details any one biosynthetic pathway	10
a) Shikimic acid pathway b) Amino Acid pathway	
2. Discuss about of biosynthesis of Fatty acids	
- 2.2 2.3 do out of blosynthesis of fatty dottes	
QIII Short Answers (Answer any 2 out of 3)	10
1. Write isolation and Identification of Citral and Artemisin	
2. Explain the biosource, Chemistry and therapeutic uses of any two	drugs

3. Write a note on utilization of radioactive isotopes in investigation of biogenetic

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First Sessional Theory Examination 2021-2022 (ODD SEM)

Subject & Subject Code: PHARMACOLOGY-II, BP503T

Day & Date: Wednesday, 13.10.2021

Class: B. Pharm. Third Year

Time: 10:30 am-12.00 noon

Semester: 5th

Max. Marks: 30

MS Teams Link: https://teams.microsoft.com/l/meetup-

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Instructions: 1. *All questions are compulsory*

2. Draw a well labeled diagram wherever necessary3. Right hand side number indicates full marks

QI. Multiple Choice Questions (MCQs)

- 1. A 78-year-old patient of stage C heart failure on digoxin therapy was admitted to the emergency room. He presented symptoms like dizziness, fainting, fatigue, chest pain and shortness of breath. Examinations revealed ventricular tachycardia. Which is a drug of choice to manage the condition?
 - a. Nifedipine
 - b. Captopril
 - c. Lidocaine
 - d. Verapamil
- 2. Which drug inhibits cholesterol absorption from small intestine?
 - a. Ezetimibe
 - b. Cholestyramine
 - c. Clofibrate
 - d. Atorvastatin
- 3. Two weeks ago, a 50-year-old man diagnosed with stable angina, had started a nitroglycerine treatment as transdermal (skin) patch for a continuous drug delivery. As directed by the physician, he applied a new patch carefully every morning immediately after removal of the old patch. The attacks of angina had completely disappeared in the first week of nitroglycerine patch therapy; however, the anginal episodes were back in second week. What is the reason for angina attacks in second week?
 - a. Variant angina complicating the stable angina
 - b. Cellular tolerance to a drug
 - c. Inadequate doses of a drug
 - d. Decreased drug absorption from patches through the skin
- 4. Which statement is FALSE for digoxin?
 - a. It does not increase oxygen demand of failing heart significantly
 - b. It produces positive inotropic effect
 - c. It decreases activity of SA and AV nodes
 - d. It increases rate and force of contraction of heart
- 5. A 58-year-old man was recently diagnosed with the vasospastic angina. Four days after beginning of the therapy, he visited to a clinic, and reported dizziness and fast-beating heart (palpitation) to the physician. What is the most likely reason for the symptoms reported by a patient?
 - a. Dilation of peripheral blood vessels
 - b. Vagus nerve stimulation
 - c. Coronary dilation
 - d. Decreased contractility of myocardium
- 6. Which anticoagulant is safe in pregnancy?



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- a. Rivaroxaban
- b. Warfarin
- c. Heparin
- d. Phenindione
- 7. Activation of plasminogen is caused by:
 - a. Aspirin
 - b. Urokinase
 - c. Clopidogrel
 - d. Heparin
- 8. Which statement is CORRECT for amiloride?
 - a. It acts in DCT and inhibits Na+/Cl- symporter
 - b. It acts in CD and inhibits tubular Na+ channel
 - c. It acts in thick AsLH and inhibits Na+/K+/2Cl- symporter
 - d. It acts in PCT and inhibits Na+/H+ antiporter
- 9. A 75-year-old patient having history of heart disease was admitted to the emergency ward due to difficulty in breathing. On examination, it was observed that the patient had a pulmonary edema. Which is the best treatment that can be indicated?
 - a. Furosemide
 - b. Spironolactone
 - c. Hydrochlorothiazide
 - d. Mannitol
 - e. Acetazolamide
- 10. A 65-year-old patient diagnosed with arterial hypertension started a therapy of thiazide. His blood pressure improved well and reached to a normal range. However, after few months of the treatment, he complains to physician of being weak and tired. Blood analysis of patient shows low values of one of the following:
 - a. Glucose
 - b. Calcium
 - c. Potassium
 - d. Sodium
 - e. Uric acid

QII. Long Answers (Answer any 1 out of 2)

1(

- 1. Classify antihypertensive drugs. Explain mechanism of action, therapeutic uses and adverse effects of captopril.
- 2. Classify NSAIDs. Explain their mechanism of action, therapeutic uses, adverse effects and interactions.

QIII. Short Answers (Answer any 2 out of 3)

10

Explain mechanism of action and therapeutic uses of ANY TWO:

- 1. Digoxin.
- 2. Nitrates.
- 3. Statins.

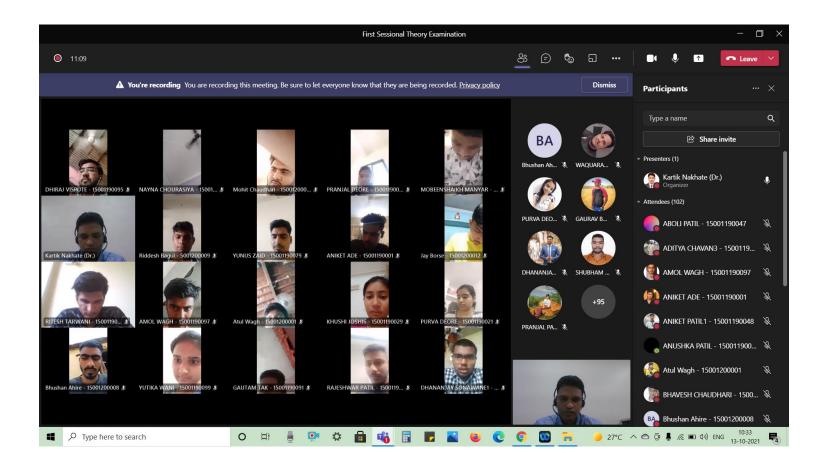
Subject-in-charge



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Vision: To pursue excellence in pharmaceutical education and research to develop competent professionals.

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First Sessional Theory Examination-(ODD SEM) 2022-2023

Sub	Subject: Pharmacology-II (BP503T) Day & Date: Thu, 10/11/2022								
Cla	ss : Third Year B	3. Pharmacy	Semester	: V	Write Your Seat No. Here				
Tin	ne : 10:30 am – 1	12:00 pm	Max. Marks	: 30					
Instr	nstructions: 1. All questions are compulsory 2. Draw a well-labeled diagram wherever necessary 3. Right-hand side number indicates full marks 4. Do not write/ tick on the question paper								
Q. I:	Multiple Choice Questions	s (MCQs)			10 M				
1.	Digoxin inhibits	in cardiac myocytes.							
	A. Na ⁺ /K ⁺ -ATPase	B. Na ⁺ /Ca ⁺⁺ -exchanger	C. Ca ⁺⁺ channels	D.	Ca ⁺⁺ -ATPase				
2.	Which drug is contraindic	ated with nitrates due to the ri	isk of life-threatening hyp	potension?					
	A. β -blockers	B. Aspirin	C. Sildenafil	D. '	Trimetazidine				
3.	Reflex tachycardia is a sid	e effect of:							
	A. Nitrates	B. Atenolol	C. Verapamil	D.	Captopril				
4.	Which β-blocker antiarrh	ythmic drug has additional K	tchannel blocking proper	rty?					
	A. Propranolol	B. Sotalol	C. Esmolol	D.	Metoprolol				
5.	Which drug is preferred to	o treat ventricular fibrillation	resulting from acute myo	cardial inf	arction?				
	A. Lidocaine	B. Nifedipine	C. Aspirin	D.	Digoxin				
6.	Which drug is a potassium	n-sparing diuretic?							
	A. Acetazolamide	B. Hydrochlorothiazide	C. Furosemide	D.	Spironolactone				
7.	Which diuretic inhibits Na	n ⁺ /K ⁺ /2Cl ⁻ symporter in the thi	ck ascending loop of Hen	ıle?					
	A. Hydrochlorothiazide	B. Spironolactone	C. Acetazolamide	D.	Furosemide				
8.	Which drug is contraindic	ated with β1-blockers?							
	A. Nifedipine	B. Hydrochlorothiazide	C. Verapamil	D.	Nitrates				
9.	Which drugs prevent card	liac and vascular remodeling?							
	A. Anticoagulants	B. Cardiotonics	C. NSAIDs	D.	ACE inhibitors				
10.	Which drug prevents plate	elets activation and aggregation	n?						
	A. Aspirin	B. Heparin	C. Atorvastatin	D.	Warfarin				
Q. I	I: Long Answers Questions	(Answer any 1 out of 2)			10 M				
1.	Classify antihypertensives	. Explain the mechanism of ac	tion, uses and adverse eff	ects of AC	E inhibitors.				
2.		their mechanism of action, use							
Q. I	II: Short Answers Question	s (Answer any 2 out of 3)			10 M				
1.	Classify lipid-lowering dru	ugs. Write in brief the mechani	ism of action and side effo	ects of stati	ins.				
2.	Justify the use of nitrates i	in the treatment of stable angir	na.						
3.	Justify the use of digoxin i	n controlling ventricular rate (during atrial fibrillation.						



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First Sessional Theory Examination 2021-2022 (ODD SEM)

Subject & Subject Code: PHARMACOLOGY-II, BP503T

Day & Date: Wednesday, 13.10.2021

Class: B. Pharm. Third Year Time: 10:30 am-12.00 noon

Semester: 5th Max. Marks: 30

MS Teams Link: https://teams.microsoft.com/l/meetup-

4df9-b771-987932d20edb%22%7d

Instructions:

- 1. All questions are compulsory
- 2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI. Multiple Choice Questions (MCQs)

- 1. A 78-year-old patient of stage C heart failure on digoxin therapy was admitted to the emergency room. He presented symptoms like dizziness, fainting, fatigue, chest pain and shortness of breath. Examinations revealed ventricular tachycardia. Which is a drug of choice to manage the condition?
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- 2. Which drug inhibits cholesterol absorption from small intestine?
 - a. Ezetimibe
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 - c. Clofibrate
 - d. Atorvastatin
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 - c. Inadequate doses of a drug
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 - a. Dilation of peripheral blood vessels
 - b. Vagus nerve stimulation
 - c. Coronary dilation
 - d. Decreased contractility of myocardium
- 6. Which anticoagulant is safe in pregnancy?



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- a. Rivaroxaban
- b. Warfarin
- c. Heparin
- d Phenindione
- 7. Activation of plasminogen is caused by:
 - a. Aspirin
 - b. Urokinase
 - c. Clopidogrel
 - d. Heparin
- 8. Which statement is CORRECT for amiloride?
 - a. It acts in DCT and inhibits Na+/Cl- symporter
 - b. It acts in CD and inhibits tubular Na+ channel
 - c. It acts in thick AsLH and inhibits Na+/K+/2Cl- symporter
 - d. It acts in PCT and inhibits Na+/H+ antiporter
- 9. A 75-year-old patient having history of heart disease was admitted to the emergency ward due to difficulty in breathing. On examination, it was observed that the patient had a pulmonary edema. Which is the best treatment that can be indicated?
 - a. Furosemide
 - b. Spironolactone
 - c. Hydrochlorothiazide
 - d. Mannitol
 - e. Acetazolamide
- 10. A 65-year-old patient diagnosed with arterial hypertension started a therapy of thiazide. His blood pressure improved well and reached to a normal range. However, after few months of the treatment, he complains to physician of being weak and tired. Blood analysis of patient shows low values of one of the following:
 - a. Glucose
 - b. Calcium
 - c. Potassium
 - d. Sodium
 - e. Uric acid

QII. Long Answers (Answer any 1 out of 2)

10

10

- 1. Classify antihypertensive drugs. Explain mechanism of action, therapeutic uses and adverse effects of captopril.
- 2. Classify NSAIDs. Explain their mechanism of action, therapeutic uses, adverse effects and interactions.

QIII. Short Answers (Answer any 2 out of 3)

Explain mechanism of action and therapeutic uses of ANY TWO:

- 1. Digoxin.
- 2. Nitrates.
- 3. Statins.

Subject-in-charge

Dr. Kartik Nakhate



Shri, Vile Parle Kelayani Mandal's Institute of Pharmacy, Dhule

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

First Sessional Theory Examination 2019-2020

Subject: Pharmacology – II (BP503T)

Class: T. Y. B. Pharm

Time: 10.30 am to 12.00 noon

Day & Date: 28.09.2019, Saturday

Seméster: V Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

1. ACE inhibitor prevent metabolism of –

- a. Acetylcholine b. Histamine c. Bradykinind. Serotonin
- 2. One of the following drug can be lifesaving in scleroderma crisis –
- a. Beta blockers b. Diuretics c. Ca²⁺ channel blockers d. ACE inhibitors.
- 3. Which of the following antiarrhythmic drug is not effective orally?
 - a. Phenytoin
- b. Mexiletine
- c. Tocainide
- d. Lignocaine

10

- 4. The short acting nitrite is
 - a. Amylnitrate

- b. Isosorbide dinitrate
- b. c. Sodium nitrite
- d. Penta erythritol tetranitrate
- 5. Antihypertensive drug having no action on renin release is
 - a. Clonidine b. Methyldopa
- c. Prazosin
- d. Guane thidine

- 6. Frusemide can cause all except
 - a. Ototoxicity b. Hyperkalemia c. Hyperuricemia d. Hypovolemia
- 7. Toxic level of digitalis is
 - a. 0.5 ng/ml

- b. 0.5 1.5 ng/ml
- b. c. b. 1.5 2.0 ng/ml

- d. More than 2.5 ng/ml
- 8. Which of the following interferes with platelet aggregation?
 - a. Aspirin
- b. Dextran 40
- c. Dipyridamole
- d. All of above

- 9. The iron preparation that can be given i.v. is
 - a. Ferrous sulphate
- b. Iron dextran
- c. Iron sorbitol citric acid complexd. Colloidal ferric hydroxide
- 10. Heparin is
 - a. Polysaccharide
- b. Lipoprotein
- c. Monosaccharide d. Ceramide

QII Long Answers (Answer any 1 out of 2)

10

- 1. Define and classify angina pectoris. Write in detail pharmacology of organic nitrates.
- 2. Classify antihypertensive agents with suitable examples. write pharmacology of calcium channel blockers.

QIII Short Answers (Answer any 2 out of 3)

10

- 1. Classify diuretics with suitable examples. Explain mode of action, therapeutic uses and adverse effects of thiazide diuretics
- 2. Classify anticoagulants with suitable examples. Write mode of action, therapeutic uses and adverse effects of warfarin.
- 3. Define and classify bioassay. Write the bioassay of digitalis.

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First Sessional Theory Examination 2020-2021 (Odd SEM)

(Out SEM)

Subject & Subject Code: Pharmacology II Day & Date: 22/10/2020

Class: TY Semester: V

Time: 10:30-01:30PM Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

- 1. Automaticity is
- a) Transmission of action potential
- b) Increased contraction
- c) Increased relaxation
- d) Spontaneous generation of action potential
- 2. Oxygenated blood comes into heart via
 - a) Pulmonary artery
 - b) Pulmonary veins
 - c) Coronary sinus
 - d) All of the above
- 3. The anticoagulant effects of heparin can be promptly arrested by administration of
 - a) Epsilon amino caproic acid
 - b) Protamine sulfate
 - c) Adrenaline
 - d) Vitamin K
- 4. Hydroxyethyl starch is a
 - a) Plasma expander
 - b) Haemostatic
 - c) Heparin substitute
 - d) Bile acid sequestrant
- 5. Exertion-induced angina, which is relieved by rest, nitroglycerin, or both, is referred to as
 - (a) Prinzmetal's angina
 - (b) Unstable angina
 - (c) Classic angina
 - (d) Variant angina
 - (e) Preinfarction angina
- 6. Cardiac glycosides are obtained from following plant source.
 - (a) Rauwolfia serpentina
 - (b) Strophanthus gratus
 - (c) Ricinus commounts.
 - (d) Atropa belladonna
- 7.Loop diuretics are also called as



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- (a) Potassium sparing diuretics
- (b) High ceiling diuretics
- (c) Osmotic diuretics
- (d) None of the above
- 8. Aspirin is used as
 - (a) Antiplatelet agent
 - (b) COX inhibitor
 - (c) Both a & b
 - (d) None of the above
- 9. Cetrizine is a
 - (a) 5HT antagonoist
 - (b) 5HT agonist
 - (c) Histamine antagonist
 - (d) None of the above
- 10. Products of lipoxygenase pathways are
 - (a) Prostaglandins
 - (b) Thromboxane's
 - (c) Leukotrienes
 - (d) Histamine

QII Long Answers (Answer any 1 out of 2)

10

- 1. Define congestive cardiac failure. Explain the pharmacological actions, mechanism of action, adverse effects and therapeutic uses of digitalis glycosides.
- 2. What do you mean by the terms diuretics? Classify different diuretics and explain the pharmacology of thiazide diuretics.

QIII Short Answers (Answer any 2 out of 3)

- 1. Enlist drugs used in the treatment of hypertension.
- 2. Explain therapeutic use and mode of action of heparin.
- 3. Classify different autocoids and their role.



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First Sessional Theory Examination 2020-2021 (Odd SEM)

(Out SEM)

Subject & Subject Code: Pharmacology II Day & Date: 22/10/2020

Class: TY Semester: V

Time: 10:30-01:30PM Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

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First Sessional Theory Examination 2020-2021 (Odd SEM)

(Out SEM)

Subject & Subject Code: Pharmacology II Day & Date: 22/10/2020

Class: TY Semester: V

Time: 10:30-01:30PM Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

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 - a) Pulmonary artery
 - b) Pulmonary veins
 - c) Coronary sinus
 - d) All of the above
- 3. The anticoagulant effects of heparin can be promptly arrested by administration of
 - a) Epsilon amino caproic acid
 - b) Protamine sulfate
 - c) Adrenaline
 - d) Vitamin K
- 4. Hydroxyethyl starch is a
 - a) Plasma expander
 - b) Haemostatic
 - c) Heparin substitute
 - d) Bile acid sequestrant
- 5. Exertion-induced angina, which is relieved by rest, nitroglycerin, or both, is referred to as
 - (a) Prinzmetal's angina
 - (b) Unstable angina
 - (c) Classic angina
 - (d) Variant angina
 - (e) Preinfarction angina
- 6. Cardiac glycosides are obtained from following plant source.
 - (a) Rauwolfia serpentina
 - (b) Strophanthus gratus
 - (c) Ricinus commounts.
 - (d) Atropa belladonna
- 7.Loop diuretics are also called as



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- (a) Potassium sparing diuretics
- (b) High ceiling diuretics
- (c) Osmotic diuretics
- (d) None of the above
- 8. Aspirin is used as
 - (a) Antiplatelet agent
 - (b) COX inhibitor
 - (c) Both a & b
 - (d) None of the above
- 9. Cetrizine is a
 - (a) 5HT antagonoist
 - (b) 5HT agonist
 - (c) Histamine antagonist
 - (d) None of the above
- 10. Products of lipoxygenase pathways are
 - (a) Prostaglandins
 - (b) Thromboxane's
 - (c) Leukotrienes
 - (d) Histamine

QII Long Answers (Answer any 1 out of 2)

10

- 1. Define congestive cardiac failure. Explain the pharmacological actions, mechanism of action, adverse effects and therapeutic uses of digitalis glycosides.
- 2. What do you mean by the terms diuretics? Classify different diuretics and explain the pharmacology of thiazide diuretics.

QIII Short Answers (Answer any 2 out of 3)

- 1. Enlist drugs used in the treatment of hypertension.
- 2. Explain therapeutic use and mode of action of heparin.
- 3. Classify different autocoids and their role.



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First Sessional Theory Examination-(Odd Sem) 2023-2024

Subject	:	Pharmacology-II (BP503T)	Day & Dat	te	:	Wed	lnesday, 1/11/23
Class	••	Third Year B. Pharmacy	Semester		:	IV	Write Your Seat No. Here
Time	:	10:30 am – 12:00 pm	Max. Mari	ks	:	30	
Instructions	3.	All questions are compulsory Right hand side number indicates full marks	2. Draw a well l 4. Do not write/t			_	n wherever necessary tion paper

Q. I	Objective Type Questions (5 x 2 = 10 M) (Answer all the questions)	10 M					
1.	Describe the mechanism of action of statins. (<i>LL1</i> , <i>CO1</i>)						
2.	Describe the interaction of nitrates with sildenafil. (LL1, CO1)						
2	a. Name any two anticoagulant drugs. (LL1, CO1)						
3.	b. Describe the mechanism of analgesic action of NSAIDs. (<i>LL1</i> , <i>CO2</i>)						
4.	Justify the combination therapy of potassium-sparing diuretics with loop diuretics. (<i>LL5</i> , <i>CO2</i>)						
5.	Classify the antiarrhythmic drugs. (LL2, CO2)						
Q. II	Long Answers Question (Answer any 1 out of 2)	10 M					
1.	Classify antianginal drugs. Explain the mechanism of action, side effects and therapeutic uses of nitrates. (LL5,	<i>CO1</i>)					
2.	Classify drugs used in CHF. Explain in detail the pharmacology of digoxin. (<i>LL5</i> , <i>CO1</i>)						
Q. III	Short Answers Question (Answer any 2 out of 3)	10 M					
1.	Classify antihypertensive drugs. Explain the mechanism of action of ACE inhibitors. (<i>LL5</i> , <i>CO2</i>)						
2.	Explain the mechanism of action and uses of antiplatelet drugs. (LL5, CO2)						
3.	Explain the mechanism of action of drugs used in chronic gout. (LL5, CO2)						



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First Sessional Theory Examination 2019-2020

Subject:	Pharmaceutical	Jurisprudence	(BP505T)
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Day & Date: Tuesday, 01/10/2019

Class: T. Y. B. Pharm

Semester: V th

Max. Marks: 30 Marks Time: 10.30 am to 12.00 pm

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Righ	t hand side number inc	licates full m	arks	
QI Multiple Choice	ce Questions (MCQs	s)		10 Marks
1.Coca leaf obtain	from genus			
a. Cannabis	b. Erythroxylon		c. Papavarum	d. Fabaceae
	owing drug comes un		Act 1985	
a. Paracetamol	b. Amphetamine	c. Acet	tazolamide	d. Isoniazid
3.Chapter II of ND	PS Act highlights on			
a. Authority and	officers.	b. Nation	al fund for ND	PS
	ntrol and regulations	d. Offeno	es and penaltie	es
	rugs indicate schedule		6	
a. B	b. C	c. P	,	d. F
5. Issue of licenses	and implementation	of act perfo	rm by	ű.
a. Licensing Auth	ority b. Drug Inspec	ctor c. Cu	stom Collector	d. None of Above
6. If formulation co	ontaining colour which	ch is not pre	scribed are con	sider as
a. Misbranded dru	g b. Spurious drug	c. Adulte	erated drug d.	. All of the above
7.The P.C.I was co	nstituted in-			•
a. 1948	b. 1989	c. 1949	d. 19	50
8. Ex-Offico memb	per of central council	is -		
a. Officer incharg	e of Drug control adı	ninistrative	b. Chief M	edical officer
c. Govt. Analyst of	of each state	(d. the controller	r of India
9. Offences of Pha	rmacy act are-			
a. falsely claiming	to be a registered pl	harmacist.		

- b. failure to surrender certificate of registration.
- c. Dispensed by unregistered person.
- d. All of above.
- 10. The use of Indian hemp plant requires specific license under which of the following act-
- a. Medicinal & Toilet Preparations Act

b. Drugs & Magic Remedies Act

c. Drugs and Cosmetic Act

d. NDPS Act

QII Long Answers (Answer any 1 out of 2)

10 Marks

- 1. Write a brief note on objectives, manufacturing of medicinal and toilet preparations with their offences and penalties
- 2. Write the objectives, constitutions and various functions of PCI

QIII Short Answers (Answer any 2 out of 3)

10 Marks

- 1. What are the duties of a drug inspector?
- 2.Describe in details Offence's and Penalties under NDPS act 1985
- 3. Elaborate Sale of Drugs Wholesale, Retail sale and Restricted license.



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First S	First Sessional Theory Examination 2020-2021 (Odd SEM)					
Subject & Subject Co	de: Pharmaceutica	l Jurisprudence (BP5	05T)			
Day & Date: Saturday	24/10/2020					
Class: T.Y. B. Pharma	cy	Semester	: V			
Time: 10:30 AM to 12	:00 PM	Max. Marl	ks : 30			
3. Right han QI Multiple Choice Que 1. All are the objective of through licenses B) To establish DTAI C) To have regular in D) To study of law pharmacy in India 2. Methamphetamine dr A) Misbranded Drug 3. The following drug ma A) Piperazine and its 4. Standard for Cosmeti A) Schedule J B) Sc 5. Schedule FF A) Standard for umber C) Standard for Umber C) Standard for Opht 6. Drug Inspector is appr A) 19 B) 42 Cy 7. All are the administration A) DTAB B) DCC 8. Specify the form number A) 22 B) 21 Cy 9. The members of the Inay of the Inay of the Inay A) DCC stand for A) Drug Consultation B) Drug Corporation QII Long Answers (Answers)	well labeled diagram was deside number indicate estions (MCQs) of Drug and Cosmetics of Drug and DCC aspection of licensed personal suggestion of licenses and fundamental personal suggestion of licenses and	es full marks Act 1940 and their rule ribution and sale of dru remises by the drug insportation of the example of Adulterated Drug D) Noteric name only except is salt C) Chlorpromazine C D) Schedule V Biological and Standard of Standard for Disinfectation of D & C act. D & C act 1940, except for retail sale of schedule of a period of Consultative Committee Composition Count	g and cosmetics pector ne profession of Tone of the above D) Hydantoin product nt fluids.			
 Explain in detail the p Explain export of med 	· •	0				
QIII Short Answers (An 1. Give the composition	-	of India	10			

Q

- 1.
- 2. Write a short note on Government Analyst
- 3. Write a short note on Sale of Drugs



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First S	First Sessional Theory Examination 2020-2021 (Odd SEM)					
Subject & Subject Co	de: Pharmaceutica	l Jurisprudence (BP5	05T)			
Day & Date: Saturday	24/10/2020					
Class: T.Y. B. Pharma	cy	Semester	: V			
Time: 10:30 AM to 12	:00 PM	Max. Marl	ks : 30			
3. Right han QI Multiple Choice Que 1. All are the objective of through licenses B) To establish DTAI C) To have regular in D) To study of law pharmacy in India 2. Methamphetamine dr A) Misbranded Drug 3. The following drug ma A) Piperazine and its 4. Standard for Cosmeti A) Schedule J B) Sc 5. Schedule FF A) Standard for umber C) Standard for Umber C) Standard for Opht 6. Drug Inspector is appr A) 19 B) 42 Cy 7. All are the administration A) DTAB B) DCC 8. Specify the form number A) 22 B) 21 Cy 9. The members of the Inay of the Inay of the Inay A) DCC stand for A) Drug Consultation B) Drug Corporation QII Long Answers (Answers)	well labeled diagram was deside number indicate estions (MCQs) of Drug and Cosmetics of Drug and DCC aspection of licensed personal suggestion of licenses and fundamental personal suggestion of licenses and	es full marks Act 1940 and their rule ribution and sale of dru remises by the drug insportation of the example of Adulterated Drug D) Noteric name only except is salt C) Chlorpromazine C D) Schedule V Biological and Standard of Standard for Disinfectation of D & C act. D & C act 1940, except for retail sale of schedule of a period of Consultative Committee Composition Count	g and cosmetics pector ne profession of Tone of the above D) Hydantoin product nt fluids.			
 Explain in detail the p Explain export of med 	· •	0				
QIII Short Answers (An 1. Give the composition	-	of India	10			

Q

- 1.
- 2. Write a short note on Government Analyst
- 3. Write a short note on Sale of Drugs



Subject

Class

Time

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Semester

Max. Marks

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Third Year B. Pharmacy

10:30 am - 12:00 pm

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Pharmaceutical Jurisprudence (BP505T) | **Day & Date**

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: 30

SAT,12/11/2022

Write Your Seat No. Here

First Sessional Theory Examination-(ODD SEM) 2022-2023

Instruc	1. All questions are compulsory 2. Draw a well labeled diagram wherever neces 3. Right hand side number indicates full marks 4. Do not write/tick on the question paper	sary						
QI Mu	ultiple Choice Questions (MCQs)	10 M						
	How many doses are permitted to import for personal use	.I						
1.	A) 500 doses B) 300 doses C) 200 doses D) 100 doses							
	The standard for mechanical contraceptive comes under as per D & C act.							
2.	A) Schedule D B) Schedule R C) Schedule S D) Schedule V							
	Chairman of DTAB is							
3.	A) Drug controller of India B) Director, central drug laboratory							
	C) President, PCI D) Director, General of Health Sciences							
	The penalty for Manufacture of any spurious drugs							
4.	A) Fine up to Rs. 5000 and 1-3year imprisonment B) Fine up to Rs. 1000 and 12 months imprisonment							
	C) Fine up to 1000and 6 months' imprisonment D) Fine up to Rs. 2000 and 6 months imprisonment							
5.	Central Drug Laboratory is located at							
	A) Izatnagar B) Kolkata C) Kasuli D) Lucknow							
	A person is called "Registered Pharmacist" if he is							
6.	A) Holding at least diploma in pharmacy B) Having sufficient experience in the pharmacy profession C) Having his name entered in the register of pharmaciet of the state. D) Name of the charge							
	C) Having his name entered in the register of pharmacist of the state D) None of the above Which body is empowered to make Education Regulations prescribing minimum standards of education required							
_	for qualification as a pharmacist?							
7.	A) Pharmacy Council of India B) State Pharmacy Council							
	C) University Grant Commission D) All India Council of Technical Education							
	Following which is not an ex-officio member of the state pharmacy council.							
8.	A) Director, Central Drug Laboratory B) Chief Administrative Medical Officer of State							
	C) Government Analyst D) Officer In-charge of Drug Control Organization							
0	An offence in which person falsely claiming to be a registered pharmacist							
9.	A) Fine up to Rs. 500.00 B) Fine up to Rs. 1000 and 12 months' imprisonment C) 6 months imprisonment D) Fine up to Rs. 2000 and 6 months imprisonment							
	C) 6 months imprisonment D) Fine up to Rs. 2000 and 6 months imprisonment Central register of Pharmacist is maintained by							
10.	A) Pharmacy Council of India B) AICTE C) State Council D) UGC							
OII		10 3/						
QII	Long Answers Question (Answer any 1 out of 2)	10 M						
1.	Explain in detail the provisions for the Import of drugs under the Drug and Cosmetics Act 1940.							
2.	Describe in detail the standards for Patent or Proprietary Medicines (Schedule V).							
QIII	Short Answers Question (Answer any 2 out of 3)	10 M						
1.	Write the objectives, constitutions and various functions of PCI							
2.	Write a short note on Drug Technical Advisory Board (DTAB).							
3.	What is a registered pharmacist? Explain the process of registration of pharmacists.							



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First Sessional Theory Examination-(ODD SEM) 2023-2024

Subject	:	Pharmaceutical Jurisprudence (BP505T)	Day & Date	:	Frid	lay, 03/11/2023
Class	:	Third Year B. Pharmacy	Semester	:	V	Write Your Seat No. Here
Time	:	10:30 am – 12:00 pm	Max. Marks	:	30	
Instructions: 1. All questions are compulsory 2. Draw a well labeled diagram wherever necessary 3. Right hand side number indicates full marks 4. Do not write/tick on the question paper						
OI Ohissa						10 1/

QI Ob	jective types questions	10 M
1.	Write a legal definition of Schedule J and Schedule O as per D & C Act 1940 and Rule 1945. (<i>LL1</i> , <i>CO1</i>)	
2.	What do you mean by repacking licence? (LL2, CO1)	
3.	Define: a) Adulterated drug b) Denatured spirit (LL2, CO1, CO2)	
4.	Enlist the general labelling requirements as per D & C Act. (LL2, CO2)	
5.	Differentiate between manufacture In-bond and outside bond. (LL2, CO2)	
QII	Long Answers Question (Answer any 1 out of 2)	10 M
1.	Explain in detail about the procedure for the Import of drugs under the Drug and Cosmetics Act 1940. (LL	2, CO1)
2.	Discuss the manufacture of drugs for testing, examination and analysis and write a note on the loan licens <i>CO1</i>)	se. (<i>LL2</i> ,
Q III	Short Answers Question (Answer any 2 out of 3)	10 M
1.	Write the objectives and various functions of PCI. (LL1, CO2)	
2.	Write a short note on the Drug Technical Advisory Board (DTAB). (LL1, CO2)	
3.	What are the qualifications and duties of a Drug inspector? (<i>LL2</i> , <i>CO2</i>)	



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First Sessional Theory Examination-(ODD SEM) 2023-2024

Subject	:	Pharmaceutical Jurisprudence (BP505T)	Day & Date	:	Frid	lay, 03/11/20	023
Class	:	Third Year B. Pharmacy	Semester	:	V	Write Your Seat N	lo. Here
Time	:	10:30 am – 12:00 pm	Max. Marks	:	30		
Instructions: 1. All questions are compulsory 2. Draw a well labeled diagram wherever necessary 3. Right hand side number indicates full marks 4. Do not write/tick on the question paper							ary
QI Objective types questions 10 M							
1 Write a legal definition of Schedule Land Schedule O as per D & C Act 1940 and Rule 1945 (LL1 CO1)							

1.	Write a legal definition of Schedule J and Schedule O as per D & C Act 1940 and Rule 1945. (<i>LL1</i> , <i>CO1</i>)	
2.	What do you mean by repacking licence? (LL2, CO1)	
3.	Define: a) Adulterated drug b) Denatured spirit (LL2, CO1, CO2)	
4.	Enlist the general labelling requirements as per D & C Act. (LL2, CO2)	
5.	Differentiate between manufacture In-bond and outside bond. (LL2, CO2)	
QII	Long Answers Question (Answer any 1 out of 2)	10 M
1.	Explain in detail about the procedure for the Import of drugs under the Drug and Cosmetics Act 1940. (LL2)	, <i>CO1</i>)
2.	Discuss the manufacture of drugs for testing, examination and analysis and write a note on the loan license <i>CO1</i>)	e. (<i>LL2</i> ,
QIII	Short Answers Question (Answer any 2 out of 3)	10 M
1.	Write the objectives and various functions of PCI. (LL1, CO2)	
2.	Write a short note on the Drug Technical Advisory Board (DTAB). (LL1, CO2)	
3.	What are the qualifications and duties of a Drug inspector? (<i>LL2</i> , <i>CO2</i>)	



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Second	Sessional	Theory	Examination	2019-2020
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Subject: Pharmacog		ochemistry-II (I	3P504T)
Day & Date: Sunday			Semester: V
Class: T.Y.B.Pharm	- A	•	
Time: 10: 30 am to	12: 00 pm		Max. Marks: 30
	vell labeled diag	lsory gram wherever ne indicates full mark	
QI Multiple Choice Que	estions (MCQs)		10
1 The Rf value of the	standard Dios	genin is	
a) 0.37	b) 0.35	c) 0.38	d) 0.36
2. The ration of strong	ammonia solu	tion: methanol f	or atropine is
a) 1.4:100 b)1.	5:100	c) 97:3	d) 70:30
3.Fermnetation cum a	cid hydrolysis	method of produ	ction use for:
a) Atropine b) S	Sennoside	c) Diosgenin	d) Digoxin
4. Successive extraction	on is also know	n as:	
a) Super critical fluid ex	traction	b) Froth floating	technique
c) Maceration		d) Soxhlet extrac	tion
5. Froth floating tech	nique employe	d for extraction	of:
a) mineral ores	b) fatty acids	c) Alkaloid	ls d) Glycosides
6. Which factor affects	rate of extrac		1 P. 1 A. 1
	b) Thickness	157	sample e) pH
7. Esterification is nec	essary for the	following chrom	atography
,	IPTLC .	c) GC	d) TLC
8 Which type of colum			
a) Vydac 101 SC b) Po 18	ermaphae AAX	c) Partisil	10 d) μBondapak C-
9. Retention time is ca	alculated in the	e following type	of chromatography
a) HPLC b) G	C c) HP	TLC d) 7	CLC
			ation of podophyllotoxin
a) Ethyl acetate: me	thanol	08.	
c) Toluene: Ethyl acc	etate	d) Ethyl acetate:	Formic acid: Acetic acid
QII Long Answers (Ar	nswer any 1 o	ut of 2)	10
			on and Utilization of the
following phytoconstit			
Diosgenine d) Taxol		N A	,
2. Explain in brief mod	dern methods	of extraction.	1 1 11
QIII Short Answers (A	Answer any 2	out of 3)	10
1. Write in detail Isola	ation and iden	tification of cure	cumin and caffeine

2. Explain in detail applications of chromatography in the study of

3. Elaborate applications of spectroscopy in field of phytochemical research

phytochemistry



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Clas		:		r B. Pharmacy			Semest		:	V	WILL	e Tour S	eat No.]
Tim	е	:		. – 04:00 pm			Max. M		:	30				
Instru	ctions			are compulsory ide number indicates fi	ull marl		. Draw a we Do not writ						cessar	y
QI M	ultip			stions (MCQs)									1	ю м
1.	Which	h of	the following	is considered as solver	nt-free	method in Pel	lletization?	(LL2,	CO	93)				
A. Ex	trusio	ı- sp	heronization	B. Hot-melt extrusion	C. a	aqueous-base	d direct pell	letization	1	D. No	one of	these		
2.	Roun	ding	off of rod-sh	aped particles into sphe	erical pa	articles is refe	erred as	(LL1	, C	<i>O3</i>)				
A. Ex	trusio	1		B. Wet massing	C.	Spheronization	on]	D. Non	e of tl	nese		
3.	Pyrog	en t	est is said to b	e passed if the rise in te	emperat	ure of individ	dual rabbits	does not	exc	eed	. °C a	s per IP	(<i>LL4</i> ,	CO3)
A. 0.5				B. 0.6	C. (0.8				D. 0.4				
4.	Low 1	nole	ecular weight	lipophilic drugs can be	absorb	ed through	route. (1	LL2, CO	<i>3</i>)					
A. Tra	anscor	neal		B. scleral	C.	conjunctival	route		1	D. Non	e of th	nese		
5.	Follo	wing	g are common	ly used excipients in th	e prepa	ration of eye	ointments e	except	. (L	L1, C0	93)			
A. Li	quid p	araf	fin	B. White soft paraffin	C. '	Yellow soft p	araffin		Γ). Woo	l fat			
6.	What	is th	ne mechanism	involved in the formul	ation o	f vanishing c	reams? (LL.	3, <i>CO4</i>)						
A. Ne	utraliz	atio	n	B. In-situ soap formati	ion C.	salt formation	n		Ι). none	of the	ese		
7.	Which	h tyj	pe of aerosol	container can only toler	ate pres	ssure less that	n 18 psig?	(LL	3, 0	C O4)				
A. Alı	uminiu	ım		B. Tinplated steel	C.	Uncoated gla	SS		Γ). Plast	ic			
8.	Which	h tyj	pe of test is us	sed to distinguish type I	glass c	container fron	n Type II an	nd III gla	ss c	ontaine	ers? (1	LL3, CO	4)	
A. Gl	ass gra	in to	est	B. Surface glass test	C.	Surface itchin	ng test			D. Spe	ctral t	ransmis	sion te	st
9.	Which	h of	the polymeric	c material in plastic con	itainers	is not autocla	avable? (LL	3, CO4)						
A. Po	lyprop	yler	ne	B. High density polyet	hylene	C. Low dens	sity polyethy	ylene		D. I	Polyar	nide		
10.	The d	ensi	ty of an aeros	ol system can be accura	ately de	etermined by	(<i>LL2</i> ,	, CO4)						
A. Py	cnome	ter		B. Karl Fischer metho	od	C. IR spectro	oscopy			D. F	Pressu	re gauge	<u> </u>	
QII	Lor	ıg A	nswers Ques	tion (Answer any 1 ou	ıt of 2)								1	о м
1.	Exp	lain	in detail abou	at the formulation of lar	ge Volu	ume Parentera	als. Extend t	he note o	on ly	yophili	zed pı	oducts.	(LL3,	CO3)
2.	Illus	strat	e in detail ab	out the production proce	ess, fac	ilities and con	ntrols in par	enteral p	rod	uct ma	nufac	turing. (1	LL3, C	CO3)
QIII	Sho	rt A	Answers Que	stion (Answer any 2 or	ut of 3)	1							1	.0 M
1.	Illus	strat	e about the ty	pes of aerosol systems.	(<i>LL3</i> ,	<i>CO4</i>)								
2.	Exp	lain	in detail abo	ut the evaluation tests o	f rubbe	r closures. (L	L4, CO4)							
3.	Exp	lain	in detail abo	ut the formulation of ha	ir dyes	. (LL2, CO4)								



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Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

Second Sessional Theory Examination 2019-2020

Subject: Industrial Pharmacy-I (BP502T)

Day & Date: Thu, 07/11/19

Class: Third Year B. Pharm

Semester: V

Time: 10.30 – 12.00 pm

Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

10

- 1. The viscosity required for ophthalmic product is
 - a. 25-45 centipoise b. 15-25 centipoise c. 15-25 millipoise d. 25-45 millipoise
- 2. Benzalkonium chloride is used as preservative in eye drop against pseudomonas aeruginosa in combination with
 - a. Butylated Hydroxy Toluene
- b. DMSO
- c. EDTA
- d. Chlorbutanol
- 3. Official Limit for Powdered attack test on Type I glass container is
 - $a. \le 1 ml$
- $b. \leq 0.5 \text{ ml}$
- $c. \le 8.5 \text{ ml}$
- d. ≤ 15 ml
- 4. The vulcanizing agent used in fabrication of rubber closure for parentral product
 - a. Zinc oxide b. Sulfur
- c. Carbon black
- d. Mercaptobenzthiazole
- 5. Plastic Polymer used as container for IV Saline Solution is
 - a. Hydroxy Propyl Methyl Cellulose
- b. Polycarbonate

c. High density Polyethylene

- , d. Poly Vinyl Chloride
- 6. Total Solid Content of Water for Injection as per USP is not more than
 - a. 10 ppm
- b. 01 ppm
- c. 10 ppb
- d. 01 ppb
- 7. Antioxidant used to block oxidative chain reaction in parenteral product
 - a. Ascorbic acid b. Butylated Hydroxy Toluene c. EDTA d. Benzoic acid
- 8. Total vapour pressure of mixture of propellant can be calculated according to
 - a. Raoults law
- b. Ficks First law
- c. Daltons law
- d. Gibbs law
- 9. Propellant used in aerosol for oral and inhalation purpose is
 - a. Dimethyl ether
- b. Nitrous oxide
- c. n-Butane
- d. Hydroflurocarbon
- 10. Cold cream formulation is based which mechanism
 - a. Neutralization b. Saphonification
- c. Radical formation d. Polymerization

Q.II Long Answers (Answer any 1 out of 2)

- 1. Define Parenteral dosage form and describe in detail about formulation of parenteral product.
- 2. Explain in details about evaluation of Aerosol dosage form.

Q.III Short Answers (Answer any 2 cut of 3) 10

- 1. Describe in brief about Vanishing cream.
- 2. Illustrate in brief about Glass container or Rubber closure.
- 3. Write a note on sterility test or pyrogen test.



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Second Sessional Theory Examination 2020-2021 (Odd SEM)

Subject & Subject Code: Industrial Pharmacy-I (BP 502T)

Day & Date: Friday, 11/12/2020

Class: Third Year B. Pharm

Time: 10.30 am- 12.00 pm

Semester: V

Max. Marks: 30

Instructions: 1. *All questions are compulsory*

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

- 1. Specific gravity is the weight of the mixture (W) per.....
 - a. 14 minims, b. 16.23 minims, c. 20 minims, d. 26.23 minims
- 2. In aerosols drug is in the propellant.
 - a. Dissolved, b. Emulsified, c. Suspended, d. All of the above
- 3. Following are the components of lipsticks except....
 - a. Waxes, b. oils, c. nitro-amino dyes, d. bromo mixtures
- 4. In which system propellants are emulsified?
 - a. Aquasol, b. foam, c. solution system, d. all of the above
- 5. LAL test is used to detect/identify the endotoxins of.......
 - a. Gram positive bacteria, b. Gram negative bacteria, c. both A and B, d. none of these
- 6. Which of the following materials are used as abrasives in the preparation of toothpaste?
 - **a.** Sodium metaphosphate, **b.** tricalcium phosphate, **c.** Calcium carbonate, **d.** all of the above.
- 7. Poor bioavailability of ophthalmic products is due to....
 - **a.** Blinking, **b.** reflex lacrimation, **c.** nasolacrimal drainage, **d.** all of the above.
- 8. The maximum volume for oval shaped soft gelatin capsules convenient for oral use in humans is...
 - **a.** 16 minim, **b.** 9 minim, **c.** 20 minim, **d.** 25 minim
- 9. Powdered glass test is used to determine leaching from following types of glass types except....
 - a. Type I, b. Type II, c. Type III, d. Type IV



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- 10. The front of the eye is filled with.....
 - a. Vitreous humor, b. Aqueous fluid, c. both a and b, d. none of these.

QII Long Answers (Answer any 1 out of 2)

10

- 1. Enlist and Explain in detail about various components involved in aerosol system.
- 2. Explain the additives used in parenteral manufacturing. Add a note on formulation of small volume parenterals.

QIII Short Answers (Answer any 2 out of 3)

- 1. Discuss in detail the extrusion-spheronization process for pellet manufacturing.
- 2. Explain the formulation and preparation of hair dyes.
- 3. Explain about the evaluation of ophthalmic preparations.



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Mapping of Course Outcome with Second Sessional Exam

Course Outcome	Question	Marks
CO 5023: Analyze In-processing problems, perform IPQC testing on Tablets & Capsule and discuss palletization	Q.1 – 1,8	07
technique (Level 4)	Q3-1	07
CO 5024: Formulate, evaluate and explain method of	Q 1 – 5,7,9,10	
preparation for Parenteral and Ophthalmic dosage form (Level 3)	Q 2 - 2	19
	Q 3 - 3	
CO 5025: Select propellant and other additives for design	Q.1 – 2,3,4,6	
of Aerosol and Cosmaceutical products (Level 3 & 4)	Q 2 - 1	19
	Q 3 - 2	



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Second Sessional Theory Examination 2020-2021 (ODD SEM)

Subject & Subject Code: Industrial Pharmacy-I (BP 502T)

Day &Date: Tuesday 14/12/2021

Class: Third Year B. Pharm Semester: V **Time:** 10.30 AM to 12.00 PM Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

10

- **1.** In Pelletization, the formation of rod-shaped particles is referred as.....
 - a. Spheronization, c. Wet Massing, c. extrusion, d. None of these.
- **2.** Ringer's injection is an example of....
 - a. Small volume parenteral, b. Large volume parenterals, c. both a and b, d. none of these.
- **3.** Which one of these is not a pelletization process?
 - a. Spray drying/congeling; b. Powder layering; c. Fluidised granulation; d. Extrusion-spheronization
- **4.** The back of the eye is filled with humor.
 - a. Aqueous; b. Vitreous; c. Both; d. None of the above
- **5.** ISO Class 5 is a room in which the particle count in the air is not more than.... per cubic foot of 0.5 µm and larger in size.
 - a. 1000; b. 10000; c. 100, d. 10
- **6.** Which is not child resistant technology
 - a. Push and turn down; b. Squeeze the sides and turn; c. Turn clockwise; d. Push down the tab and turn
- 7. Which type of aerosol container can only tolerate pressure less than 25 psig?
 - a. Tinplated steel; b. Aluminium; c. stainless steel; d. Coated glass
- 8. Beeswax borax are the main ingredients used in the preparation of
 - a. Cold creams; b. Shampoo; c. Vanishing creams; d. Sunscreen preparations
- **9.** Following are the functionality tests applicable for rubber closures except
 - a. Fragmentation; b. Penetrability, c. Self-seal ability; d. Collapsibility
- 10. Abrasives and polishing agents are utilized in the preparation of
 - a. Sunscreen preparations; b. toothpastes; c. hair dyes; d. lipsticks

QII Long Answers Question (Answer any 1 out of 2)

10

- 1. Describe in detail about the formulation of Small Volume Parenterals. Explain the Pyrogen Test / Sterility Test for Parenterals.
- 2. Discuss the formulation considerations of ophthalmic preparations. Explain about preparation of eye drops.

QIII Short Answers Question (Answer any 2 out of 3)

- 1. Explain about the Propellants and Valve system in aerosols.
- 2. Discuss about the evaluation of glass **OR** Plastic packaging.
- 3. Illustrate in brief about formulation of Lipsticks.



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Second Sessional Theory Examination 2020-2021 (Odd SEM)

Subject & Subject Code: MC-II (BP 501T Day & Date: Tue 10/12/2020

Class: T.Y.B. Pharm Semester: V

Time: 10:30am-12:00pm **Max. Marks**: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

Q I Multiple Choice Questions (MCQs)

10

- 1.In congestive cardiac failure, digitalis glycosides are used because it increases
- a. The heart rate
- b. The force of myocardial contraction
- c. The venous pressure
- d. The cardiac filling pressure
- 2. Anti-inflammatory effect of glucocorticoids is caused by
- a. Reducing the prostaglandin and leukotriene which results from inhibition of phospholipase A
- b. Reducing macrophages migration into the site of inflammation
- c. Decreasing capillary permeability
- d. All of the above
- 3.---- of Sildenafil is used for the treatment Pulmonary Arterial Hypertension (PAH)
- a. Round white tablet

b. Blue Oval tablet

c. Compressed tablet

- d. Molded tablet
- 4. Which of the Following is not coumarin derivative
- a. Warfarin b. Dicumarol
- c. Vitamin K d. Acenocumarol
- 5. Following are thyroid drugs except
- a. Thyroxine Sodium b.Propythiouracil
- c. Levothyroxine d.Thyroglobulin
- 6. Bicyclic ring containing local anesthetics is
- a.Butamben b.Procaine
- c. Lidocaine d. Cocaine
- 7. Which one of the following local anesthetics causes methemoglobinemia?
- a. Prilocaine b. Procaine
- c. Lidocaine d. Ropivacaine
- 8. Following is a long acting insulin
- a. Insulin Glargine b. Insulin Lispro
- c. Insulin Lente d. Insulin Glulisine
- 9. Which of the following is not aryl sulphonyl containing OHG
- a. Metformin b. Glimepiride
- c. Glipizide d. Both b and c
- 10. Which of the Following is non-steroidal Estrogen
- a. Diethylstilbestrol b. Mifepristone
- c. Norgestrel d. None of the above

Q II Long Answers (Answer any 1 out of 2)

- 1. What are steroids? Write the nomenclature and Stereochemistry of steroids
- 2. What is Diabetes Mellitus? Classify oral hypoglycemic agents with suitable structures from each class. Write the SAR of Sulphonyl Urea.

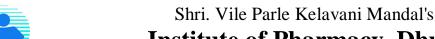


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Q III Short Answers (Answer any 2 out of 3)

- 1. What is anticoagulants? Write a Structure Activity Relationship of Warfarin
- 2. Write a note on Norgestrel and Mifepristone as an Oral Contraceptive Drugs.
- 3. Write the classification and SAR of Ester containing Local Anesthetic Drugs with structures.



Medicinal Chemistry-II (BP501T)

a Justify Mifepristone and Levonorgestrel as Oral contraceptives

b. Tolbutamide

Outline the synthesis & IUPAC of Warfarin

Third Y. B. Pharmacy

Subject

Class

Institute of Pharmacy, Dhule

Day & Date

Semester

Monday & 13/12/2021

V

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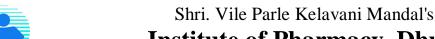
Second Sessional Theory Examination 2021-2022 (Odd Semester)

10:30am - 12:00 pm hrs Max. Marks 30 **Time** *Instructions:* 1. All questions are compulsory. 2. Draw a well labelled diagram wherever necessary 3. Right hand side number indicates full marks [10] 0.1 Multiple Choice Questions Lovastatin is obtained from which of following microorganism Aspergiilus niger and Monoscus Aspergiilus terreus and Monoscus rubber Penicillium citrinium and Monoscus Penicillium citrinium and Aspergiilus rubber terreus The basic ring present in atorvastatin is a. Indole Pyrrole b. None of the above Naphthalene Drug that inhibits absorption of Glucose in GIT is Pioglitazone Repaglinide b. Tolbutamide Metformin C. d. Insulin is produced from preproinsulin which contains --110 amino acids 86 amino acids 35 amino acids 125 amino acid Meglitinide is also called Glitazones Insulin secretagogues D-Phenylalanine analogue d. **AMPK Activators** Dibucaine contains -----basic nucleus b. Quinoline None of the above c. Parafollicular Cells of Thyroid gland secretes T3 T4 h Calcitonin All of the above c. Which of the Following is non-steroidal Estrogen Diethylstilbestrol Mifepristone **Ethinyl Estradiol** Norgestrel c. Which one of the following local anaesthetics causes methemoglobinemia Prilocaine Procaine Lidocaine Ropivacaine 17-β-hydroxyl androst-4-ene-3-one is IUPAC of a. Oestradiol b. Estriol Cortisone d. Testosterone Q.2. Answer the following short questions (any one) [10] Classify steroids and highlight the SAR of Anti-inflammatory Synthetic Steroids with examples b Write Structure activity relationship of local anesthetic with ester group and outline the synthesis of Dibucaine Q.3. Answer in detail of following (any two) [10]

Classify antidiabetic drugs with suitable structures from each class. highlight SAR of Sulphonyl urea



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Medicinal Chemistry-II (BP501T)

a Justify Mifepristone and Levonorgestrel as Oral contraceptives

b. Tolbutamide

Outline the synthesis & IUPAC of Warfarin

Third Y. B. Pharmacy

Subject

Class

Institute of Pharmacy, Dhule

Day & Date

Semester

Monday & 13/12/2021

V

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

Second Sessional Theory Examination 2021-2022 (Odd Semester)

10:30am - 12:00 pm hrs Max. Marks 30 **Time** *Instructions:* 1. All questions are compulsory. 2. Draw a well labelled diagram wherever necessary 3. Right hand side number indicates full marks [10] 0.1 Multiple Choice Questions Lovastatin is obtained from which of following microorganism Aspergiilus niger and Monoscus Aspergiilus terreus and Monoscus rubber Penicillium citrinium and Monoscus Penicillium citrinium and Aspergiilus rubber terreus The basic ring present in atorvastatin is a. Indole Pyrrole b. None of the above Naphthalene Drug that inhibits absorption of Glucose in GIT is Pioglitazone Repaglinide b. Tolbutamide Metformin C. d. Insulin is produced from preproinsulin which contains --110 amino acids 86 amino acids 35 amino acids 125 amino acid Meglitinide is also called Glitazones Insulin secretagogues D-Phenylalanine analogue d. **AMPK Activators** Dibucaine contains -----basic nucleus b. Quinoline None of the above c. Parafollicular Cells of Thyroid gland secretes T3 T4 h Calcitonin All of the above c. Which of the Following is non-steroidal Estrogen Diethylstilbestrol Mifepristone **Ethinyl Estradiol** Norgestrel c. Which one of the following local anaesthetics causes methemoglobinemia Prilocaine Procaine Lidocaine Ropivacaine 17-β-hydroxyl androst-4-ene-3-one is IUPAC of a. Oestradiol b. Estriol Cortisone d. Testosterone Q.2. Answer the following short questions (any one) [10] Classify steroids and highlight the SAR of Anti-inflammatory Synthetic Steroids with examples b Write Structure activity relationship of local anesthetic with ester group and outline the synthesis of Dibucaine Q.3. Answer in detail of following (any two) [10]

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Second Sessional Theory Examination-(ODD SEM) 2022-2023

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Sub	ject	:	Medicinal Chemistry-II (BP501T)	Day & Dat	e:	Mo	n,02/01/2		
Clas	ss	:	Third Year B. Pharmacy	Semester	:	V	Write Your	Seat No. 1	Here
Tim	ıe	:	02:30 pm – 04:00 pm	Max. Mark	ss :	30			
Instru	uctions	1.		2. Draw a well lo				ecessary	
OI V	Jultinl	ეპ. ბ. С	noice Questions (MCQs)	. Do not write/ti	ek on th	e que	esuon paper 10 M		-
1.			the following vitamin is used by liver to produce clot	ting factors II	VII IV	and I			
	A) Vita			~		, and 2	X! (LL1, COS	')	
			, , , , , , , , , , , , , , , , , , , ,	D) Vitamin k	<u> </u>				
2.			moiety present in Digoxin is(LL2, CO3)						
	A) Dig								
	C) Man			(770 000)					
3.			of Na/K ATPase, used in management of CHF is						
	A) An		, , ,) minoxidil					
4.			all steroids have in common? (LL2, CO3)						
		•	•	in at least one f	atty acio	d grou	up		
	C) The	y aı	e manufactured by the liver D) They are w	ater-soluble					
5.	Which	ı of	the following form is the active form of thyroid horm	none? (LL1, CO	3)				
	A) T3		B) T4 C) rT3	D) none of the a	above				
6.	What	is t	ne first-line drug for patients with type 2 diabetes and	obesity? (LL3,	<i>CO4</i>)				
	A) Aca	rbo	e B) Metformin C) Sulphonylu	ireas		D) Ins	sulin above		
7.	Sulfor	ıylı	rea hypoglycemic agents act through which of recept	or? (LL2, CO4))				
	A) Pota	ssi	m Channel B) Calcium Channel C) B-Adrener	rgic Receptors	D) M	uscari	inic Receptors	}	
8.	Insuli	n R	eceptors consists of? (LL3, CO4)						
	A) 1 Al	pha	& 2 Beta subunits B) 2 Alpha & 2 Beta subu	units					
			& 1 Beta subunits D) 2 Alpha & 3 Beta subu	units					
9.	Amid	e-ty	pe local anesthetic is (LL3, CO4)						
	A) Lido			caine	Γ) But	tamben		
10.	Identi	fy t	ne structure (LL3, CO4)						
	H ₂ N	1—	O OC_2H_5						
	A) Proc	ain	e B) Butamben C) Benzocai	ne	D)	Beno	oxinate		
QII	Long	An	swers Question (Answer any 1 out of 2)					10	о м
	F 1			. CD:1	(112	001	^		

QII	Long Answers Question (Answer any 1 out of 2)	10 M			
1.	Explain the SAR of local anesthetic agents. Give the synthetic route of Dibucaine. (LL3, CO4)				
2.	Classify the oral hypoglycemic agents with examples. Explain the MOA of Biguanides and thiazolidinediones. (<i>LL3</i> , <i>CO4</i>)				
QIII	Short Answers Question (Answer any 2 out of 3)	10 M			
1.	Explain the MOA of warfarin and give its synthetic route. (LL3, CO3)				
2.	What are steroid hormones. Write a note on oral contraceptive agents. (LL3, CO3)				
3.	What is hyperthyroidism. Write a note on antithyroid drugs. (LL3, CO3)				

Prepared by Verified by Approved by

Mr. Mahendra Khairnar

Dr. Girija Bhavar

Dr. Raghu Prasad



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Second Sessional Theory Examination-(ODD SEM) 2022-2023

			occome ocssional incory Examina	•		'			
	ject	:	Medicinal Chemistry-II (BP501T)	Day & Dat	e :	Mo	on,02/01/2		
Clas	ss	:	Third Year B. Pharmacy	Semester	:	V	Write Your S	Seat No. H	lere
Tim	ıe	:	02:30 pm – 04:00 pm	Max. Mark	ks :	30			
Instru	uctions	1.		2. Draw a well lo				ecessary	
OI V	Jultinl	ეპ. ბ. С	noice Questions (MCQs)	. Do not write/ti	ek on tr	e que	esuon paper 10 M		
1.			the following vitamin is used by liver to produce clot	ting factors II	VII IV	and I			
	A) Vita			D) Vitamin k		, and 2	X! (LL1, CO3)	
			, , , , , , , , , , , , , , , , , , , ,	D) Vitamin r	<u> </u>				
2.			moiety present in Digoxin is(LL2, CO3)						
	A) Dig								
	C) Man			(770 000)					
3.			of Na/K ATPase, used in management of CHF is						
	A) An		, , ,) minoxidil					
4.			all steroids have in common? (LL2, CO3)						
		•	•	in at least one f	atty aci	d grou	up		
	C) The	y aı	e manufactured by the liver D) They are w	ater-soluble					
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8.	Insuli	n R	eceptors consists of? (LL3, CO4)						
	A) 1 Al	pha	& 2 Beta subunits B) 2 Alpha & 2 Beta subu	units					
			& 1 Beta subunits D) 2 Alpha & 3 Beta subu	units					
9.	Amid	e-ty	pe local anesthetic is (LL3, CO4)						
	A) Lido			caine	Γ) But	tamben		
10.	Identi	fy t	ne structure (LL3, CO4)						
	H ₂ N	1—	O OC_2H_5						
	A) Proc	ain	e B) Butamben C) Benzocai	ne	D)	Beno	oxinate		
QII	Long	An	swers Question (Answer any 1 out of 2)					10	M
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Prepared by Verified by Approved by

Mr. Mahendra Khairnar

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Dr. Raghu Prasad



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Second Sessional Theory Examination 2020-2021 (Odd SEM)

Subject & Subject Code: Pharmacognosy & Phytochemistry-II (BP504T)

Day & Date: Monday, 14/12/2020

Class: T.Y. B. Pharmacy
Time: 10: 30 am to 12:00 noon

Semester: V
Max. Marks: 30

Instructions: 1. All questions are compulsory 2. Draw a well labeled diagram wherever necessary 3. Right hand side number indicates full marks	
QI Multiple Choice Questions (MCQs)	10
1 melting point of Curcumin.	
a) 183 °C b) 185 °C c) 187 °C d) 189 °C	
2. Mobile phase for determination of Reserpine	
a) Methanol: Water b) Chloroform: Water: Formic acid	
c) Cyclohexane: Chloroform d) Ethyl acetate: Chloroform: Wa	ater
3 is the precursor for steroid synthesis	
a) Digitalis b) Artemesin c) Disocorea d) Taxol	
4. Benzene: Methanol mobile phase used for the separation of	
a) Digoxin b) Caffeine c) Atropine d) Forskolin	
5. Ultrasound extractor involves the use of frequency ranges:	
a) 20 to 2000 kHz b) 20 to 1000 kHz c) 10 to 2000 kHz c) 10 t	o 1000 kHz
6. Solvent Free product is obtained in extractor	
a) Soxhlet b) Craig counter current c) Microwave d) Super crit	ical Fluid
7 method is use for Separation of proteins	
a) TLC b) Electrophoresis c) Column d) HPLC	
8. Which method of chromatography used for separation of volat	ile and fixed oil components?
a) HPLC b) HPTLC c) Column d) GC	
9. The ration of distance travel by solute /distance travel by sol	lvent refers to:
a) Rf value b) Rt value c) Rm value d) Rc value	
10. Thermal conductivity detector are used in	
a) HPLC b) HPTLC c) GC d) TLC	
QII Long Answers Question (Answer any 1 out of 2)	10

- 1. Describe the applications of Chromatography and Spectroscopy in Phytochemical Analysis.
- 2. Describe Industrial production, Estimation and Utilization of Atropine, Artemesin and Disogenin

QIII Short Answers Question (Answer any 2 out of 3)

- 1. Write a note on Craig-Counter Current extraction.
- 2. Explain principle and applications of Electrophoresis in Phytochemical research
- 3. Write a note on Isolation and identification of Quinine and Reserpine



INSTITUTE OF PHARMACY, DHULE

Behind Gurudwara, Mumbai-Agra Highway, Dhule

Phone: 02562- 297802, 297805 **Fax:** 02562- 287802, **Email:** examiop@svkm.ac.in

Second Sessional Theory Examination 2021-2022. (Odd SEM)

Subject & Subject Code: Pharmacognosy and Phytochemistry-II BP504T

Day & Date: Thursday, 16/12/2021

Class: T. Y. B. Pharm.

Semester: V
Time: 10.30am to 12.00pm

Max. Marks: 30

Instructions

All questions are compulsory.

• Draw well labeled diagrams or infographics, wherever necessary.

Right hand side number indicates full marks.

Q1 Attempt following multiple choice questions:

(10x1=10)

1] What are two varieties of plants used to isolate Taxol?

i) Taxus brevifolia & Taxus baccata ii) Taxus vera & Taxus baccata iii) Taxus brevifolia & Taxus vera iv) None

2] Microwaves are electromagnetic radiations with wavelength ranging from 1m to 10mm and frequency from

i)30 MHz & 500 GHz

ii)400MHz & 500 GHz

iii)0.3MHz & 50 GHz

iv) 300MHz & 300 GHz

3] Digoxin is obtained from

i) Lanatoside A

ii) Lanatoside B

iii) Lanatoside C

iv) Lanatoside D

4] Analytical & preparative techniques are associated with

i)TLC

ii) Electrophoresis

iii) NMR spectroscopy

iv) Supercritical Fluid

5] Which of the following is not an example of resin?

i)Turmeric

ii) Ginger

iii) Podophyllotoxin

iv) None of these

6] Murexide test is use to confirm the presence of

i)Vincristine

ii) Ergotamine

iii) Caffeine

iv) Atropine

7] Adsorbent layer thickness in HPTLC is around

i)10-20 µm

ii)100-150µm

iii)50-60 µm

iv)30-40 µm

8] Critical temperature and critical pressure (respectively) for CO₂ is

i) 31°C & 74 atm

ii) 31°C & 150 atm

iii) 10°C & 74 atm

v) None of these

9] Which of the following plant is used to get the drug to treat organophosphorus poisoning?

i) Curcuma longa

ii) Vinca rosea

iii) Atropa belladonna

iv) ii & iii

10] Cavitation phenomenon is associated with which of the following modern methods of extraction?

i) Percolation

ii) Soxhlet extraction

iii) Ultrasonication assisted extraction

iv)Maceration

Q2 Answer the following short answer questions: (Any two)

(2x5=10)

A. Explain isolation, identification & analysis of atropine & citral.

B. Write a brief note on applications of TLC, UV-visible spectroscopy in phytochemistry, with suitable examples.

C. How podophyllotoxin & menthol are isolated & analyzed.

Q3. Answer the following long questions in detail: (Any one)

(1x10)

a. Generate scheme for industrial production and estimation of Taxol & sennoside. Also reflect various uses of taxol, disogenin & atropine.

b. Organize various modern methods of extraction; analyze and create a detail on supercritical fluid extraction and microwave assisted extraction with their applications and instrument set up.



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Second Sessional Theory Examination-(ODD SEM) 2022-2023

Subject: (BP504T)Pharmacognosy & Phytochemistry II		Day & Date	: Thursday, 5	/1/2023		
Clas	<u> </u>		Semester	: V Write Your	Seat No. Here	
Tim		-	Max. Marks	: 30		
Instru	uctions: 1. All questions are 3. Right-hand side	compulsory number indicates full marks	2. Draw a well-labe 4. Do not write/tick	led diagram wherever on the question paper	necessary	
Q. I:	Multiple Choice Questions (N				10 M	
1.	Lawsone is an example of				(CO3, LL1)	
	A. Naphthoquinone	B. Anthraquinone	C. Lignan	D. None of these		
2.	Microwaves are electromage	netic radiations with waveler	ngth ranging from 1m to 10m	m and frequency from	(CO3, LL1)	
	A. 30 MHz & 500 GHz	B. ii)400MHz & 500 GHz	C . iii)0.3MHz & 50 GHz	D. iv) 300MHz & 300 G	Hz	
3.	Glycyrhetinic acid is obtained	ed from			(CO3, LL1)	
	A. Liquorice	B . Digitalis	C. Forskolin	D. None of these		
4.	Which of the following is an	anticancer agent?			(CO3, LL1)	
	A. Vinca	B . Taxol	C Podophyllum	D. All of these		
5.	Quinine is obtained from				(CO3, LL1)	
	A. Cinchona succirubra	B. C. calisaya	C. C. ledgering	D. All of these		
6.	Normal & reverse phase cor	ncept is associated with			(CO4, LL1)	
	A. Chromatography	B. Electrophoresis	C. Spectroscopy	D. Supercritical Fluid Ex	xtraction	
7.	Chromatography is used for	r of phytoconstitu	ients (CO4, LL1)			
	A. Identification	B. Separation	C. both i & ii	D. None of these		
8.	Critical temperature and crit	tical pressure (respectively)	for CO ₂ is (CO4, LL1)			
	A. 31°C & 74 atm	B. 31°C & 150 atm	C . 10°C & 74 atm	D. None of these		
9.	TLC and HPTLC same? (CC	94, LL1)				
	A. Yes	B. No				
10.	NMR, IR, UV methods are ex	camples of (CO4, LL1)	•			
	A. Spectroscopy	B. Electrophoresis	C. Gravimetric methods	D. None of these		
Q. II:	Long Answers Questions (A	nswer any 1 out of 2)			10 M	
1. Ge	1.Generate scheme for industrial production and estimation of diosgenin. (CO3, LL5)					
2 . Co	2. Construct steps in isolation, analysis and identification of quinine. (CO3, LL5)					
Q. III:	Q. III: Short Answers Questions (Answer any 2 out of 3)					
1. Wr	ite a brief note on basics and a	applications of TLC in phytoche	emistry with suitable examples.	(0	CO4, LL3)	
2. En	2. Enlist various modern methods of extraction. Explain supercritical fluid extraction or microwave-assisted extraction. (CO4, LL3)					
3. Ex	plain spectroscopy and its app	lications in phytochemistry.		(0	CO4, LL3)	



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Second Sessional Theory Examination 2021-2022 (ODD SEM)				
Subject & Subject Code: PHARMACOLOGY-II, BP503T Day & Date: Wednesday, 15.12.2021 Class: T. Y. B. Pharm. Time: 10:30 am-12.00 noon Semester: V Max. Marks: 30				
Instructions: 1. All questions are compulsory 2. Right hand side number indicates full marks QI. Multiple Choice Questions (MCQs) 1. Which is the example of quantal bioassay? a. Digitalis b. Oxytocin c. ACTH d. ADH 2. Betahistine is used in the management of:				
 a. Meniéré's disease b. Gastric ulcer c. Huntington's disease d. Asthma 3. Which vasodilatory-inflammatory autacoid contributes in short-term effects of ACEIs on blood pressure? a. Serotonin b. Bradykinin c. Histamine d. Angiotensin 				
 Which autacoid transmit pain signal from peripheral sensory nerve in the spinal cord and inhibited by Morphine? a. Thromboxane b. Serotonin c. Prostaglandin E2 d. Substance P Which drug acts as a leukotriene receptor antagonist to relieve asthma? a. Salbutamol b. Terbutaline c. Montelukast d. Cetirizine Which drug inhibits ATP sensitive K+ channel in beta cell membrane? a. Repaglinide b. Acarbose c. Dapagliflozin d. Metformin Which drug is used in the treatment of PCOS? a. Metformin b. Estrogen c. Progesterone d. All of the above Which glucocorticoid is preferred in cerebral edema due to its inability to cause fluid retention a. Betamethasone b. Dexamethasone c. Prednisolone d. (a) and (b) e. (a) and (c) Which drug is used for the induction of ovulation? a. Clomiphene b. Menotropins (FSH&LH) c. Choriogonadotropin α (HCG) d. All of the above Which drug is used to suppress LH surge from pituitary so that a controlled ovarian hyperstimulation can be induced by menotropins (FSH+LH) injection, to harvest precisely timed mature ovum?				
QII. Long Answers (Answer any 1 out of 2)				
 Classify oral hypoglycemic drugs. Explain mechanism of action, therapeutic uses and adverse effects of metforming. Explain therapeutic uses and adverse effects of estrogens. Write the mechanism of action of hormonic contraceptives and emergency contraceptives. 				
QIII. Short Answers (Answer any 2 out of 3) 10				

- 1. Explain therapeutic uses and side effects of H1 antihistamines.
- 2. Define bioassay. Explain its principle and applications.
- 3. Predict the target organ and effect assayed for the following agents:

Drug	Target organ	Effect assayed
Oxytocin		
Serotonin		
Digitalis		
d-Tubocurarine		
ACTH		



Institute of Pharmacy, Dhule

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

Second	Sessional	Theory	Examination	2019-2020
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Subject: Pharmacology - II

Day & Date: 08.11.2019, Friday

Class: T. Y. B. Pharm

Semester: V

Time: 10.30 am to 12.00 noon

Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

10

1. Triple response of histamine include-

a. Red spot

b. Wheal

c. Flare

d. All of above

2. Sumatriptan is-

a. 5HT₁A agonist b. 5HT₁B agonist c. 5HT₂A agonist

d. 5HT₂ Bagonist

3. NSAIDs inhibit -

a. Lipoxygenase

c. Cyclo-oxygenase

b. Arachidonic Acid Reductase

d. Prostaglandin Reductase

4. Thyroid gland secretes all hormones except -

a. Thyroxin b. Prolactin c. Tri-iodothyronine

d. Calcitonin

5. T3 is used in -

a. Thyrotoxicosis b. Myxedema crisis

c. Thyroid cancer d. All of above

6. Chemically insulin is -

a. Glycoprotein

b. Octapeptide

c. Polypeptide

d. Decapeptide

7. Antidiabetic drug used in type I diabetes is -

a. Sulphonylureas

b. Biguanides

c. Insulin 8. Plasma calcium level regulated by all except -

d. All of above

b. Parathormone

c. Calcitonin

d. Calcitriol

d. All of above

9. Active form of Vitamin D is b. Calciferol

a. 10 min

10. Plasma half-life of insulin is -

b. 2 hr

c. Cholicaleiferol c. 6 hr

d. 10 hr

QII Long Answers (Answer any 1 out of 2)

10

1. Classify NSAIDs. Write pharmacology of Aspirin.

2. Enlist hormones secreted by pituitary gland along with their function.

QIII Short Answers (Answer any 2 out of 3)

10

1. Discuss in brief hormones regulated for calcium balance.

2. Pharmacotherapy of Rheumatoid Arthritis.

3. Write the mechanism of actions and physiological actions of insulin.



Shri. Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

Second Sessional Examination: 2020-2021

Subject: Pharmacology - II Day & Date: 12-12-2020 (Saturday)

Class: T.Y. B. Pharm Semester: V

Time: 10.30 AM to 12.00 NOON Max. Marks: 30

Instructions: 1. *All questions are compulsory*

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

- 1. Which of the following antienzymes is a xanthine oxidase inhibitor? (CO3)
 - a) Physostigmine
 - b) Allopurinol
 - c) Aminocaproic acid
 - d) Acetazolamide
- 2. Which of the following hormones is not secreted by thyroid? (CO4)
 - a) Thyroxine
 - b) Triiodothyronine
 - c) Calcitonin
 - d) Oxytocin
- 3. The parathyroid hormone increases serum calcium and decreases serum phosphate. This consideration is: (CO4)
 - a) True
 - b) False
- 4. Sildenafil is also called? (CO5)
 - a) PDE-1 inhibitor
 - b) PDE-2 inhibitor
 - c) PDE-3 inhibitor
 - d) PDE-5 inhibitor
- 5. The following substances are considered to be referred to as eicosanoids: (CO3)
 - a) Prostaglandins
 - b) Leukotrienes
 - c) Thromboxane's
 - d) All of the above

- 6. Insulin is a polypeptide hence: (CO4)
 - a) It is resistant to destruction by gastric juice
 - b) It is destroyed by gastric juice
 - c) It is not a polypeptide
 - d) It is metabolized immediately by cellular enzymes
- 7. Which of the following NSAIDs is an indole derivative? (CO3)
 - a) Ibuprofen
 - b) Indomethacin
 - c) Mefenamic acid
 - d) Diclofenac
- 8. The corticoids are? (CO4)
 - a) 20 carbon compounds
 - b) 21 carbon compounds
 - c) 22 carbon compounds
 - d) 19 carbon compounds
- 9. Tamoxifen is: (CO5)
 - a) Antiprogestin
 - b) Antiandrogen
 - c) Antiestrogen
 - d) Androgen
- 10. Quantal bioassay is also called? (CO5)
 - a) Direct end point bioassay
 - b) Matching bioassay
 - c) Graded dose response bioassay
 - d) Bracketing bioassay

QII Long Answers (Answer any 1 out of 2)

10

- 1. Write synthesis and pathological involvement of insulin. Give classification of antidiabetic drugs. (CO4)
- 2. Write applications, principles and types of bioassay. Write bioassay of oxytocin. (CO5)

QIII Short Answers (Answer any 2 out of 3)

- 1. Classify NSAIDs and their pharmacology. (CO3)
- 2. Explain in brief about oral contraceptives. (CO5)
- 3. Classify antithyroid drugs along with mechanism. (CO4)



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Second Sessiona	l Theory	Examination-(OD	OD SEM) 2022-2023
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Sub	ject : Pharmacolog	y-II (BP503T)		Day & Date	:	Wed	, 04/01/2023		
Cla	ss: Third Year B.	Pharmacy		Semester	:	V	Write Your Seat No. Here		
Tin	-	-		Max. Marks	:	30			
Instr	structions: 1. All questions are compulsory 2. Draw a well-labeled diagram wherever necessary 3. Right-hand side number indicates full marks 4. Do not write/tick on the question paper								
Q. I	Multiple Choice Questions	(MCQs)					10 M		
1.	. Which organ is used for the bioassay of oxytocin?								
	A. Uterus	B. Heart	C. I	Liver		D.	Spleen		
2.	Blood glucose level is evaluate	ated in the bioassay of which	agent?						
	A. Adrenaline	B. Acetylcholine	C. <i>A</i>	ACTH		D.	Insulin		
3.	Cardiac arrest is evaluated	in the bioassay of which ager	nt?						
	A. ADH	B. Serotonin	C. I	Digitalis		D.	Histamine		
4.	Which effect is evaluated in	the bioassay of histamine?							
	A. Head drop	B. Contraction of ileum	C. I	Hypoglycemia		D.	Cardiac arrest		
5.	Ondansetron produces anti	emetic effect by blocking whi	ch ser	otonergic receptor	?				
	A. 5HT1	B. 5HT2	C. 5	БНТ3		D.	5HT4		
6.	Following are the estrogen	dependent cancers EXCEPT:	:						
	A. Lung cancer	B. Breast cancer	C. U	Jterine cancer		D.	Ovarian cancer		
7.	Risk of prostate cancer in t	he professional bodybuilders	is asso	ciated with the tre	atm	ent of:			
	A. Growth hormone	B. Anabolic steroids	C. I	nsulin		D.	Progesterone		
8.	Development of which orga	n is stimulated by thyroid ho	rmone	s instead of growth	n hoi	rmone	?		
	A. Heart	B. Skeletal muscles	C. I	Bones		D.	Brain		
9.	Which agent acts on the int	racellular receptors?							
	A. Prolactin	B. Insulin	C. 0	Corticosteroids		D.	Growth hormone		
10.	0. Which hypothalamic hormone produces inhibitory effect on a. pituitary?								
	A. Somatostatin	B. CRH	C. (GnRH		D.	TRH		
Q. I	Q. II: Long Answers Questions (Answer any 1 out of 2)								
1.	Classify H1 antihistaminic	drugs. Explain their mechani	sm of a	action, uses and sid	le ef	fects.			
2.	. Classify oral hypoglycemic drugs. Explain mechanism of action, uses and side effects of metformin.								

Q. III: Short Answers Questions (Answer any 2 out of 3)

10 M

- 1. Write a note on oral contraceptives.
- 2. Explain the action of insulin on blood glucose levels.
- 3. Classify antiestrogens. Justify the use of progesterone in combination with estrogen as a post-menopausal hormone replacement therapy.



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Second Sessiona	l Theory	Examination-(OD	OD SEM) 2022-2023
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		•		•		•			
Sub	ject : Pharmacolog	y-II (BP503T)		Day & Date	:	Wed	, 04/01/2023		
Cla	ss: Third Year B.	Pharmacy		Semester	:	V	Write Your Seat No. Here		
Tin	-	-		Max. Marks	:	30			
Instr	structions: 1. All questions are compulsory 2. Draw a well-labeled diagram wherever necessary 3. Right-hand side number indicates full marks 4. Do not write/tick on the question paper								
Q. I	Multiple Choice Questions	(MCQs)					10 M		
1.	. Which organ is used for the bioassay of oxytocin?								
	A. Uterus	B. Heart	C. I	Liver		D.	Spleen		
2.	Blood glucose level is evaluate	ated in the bioassay of which	agent?						
	A. Adrenaline	B. Acetylcholine	C. <i>A</i>	ACTH		D.	Insulin		
3.	Cardiac arrest is evaluated	in the bioassay of which ager	nt?						
	A. ADH	B. Serotonin	C. I	Digitalis		D.	Histamine		
4.	Which effect is evaluated in	the bioassay of histamine?							
	A. Head drop	B. Contraction of ileum	C. I	Hypoglycemia		D.	Cardiac arrest		
5.	Ondansetron produces anti	emetic effect by blocking whi	ch ser	otonergic receptor	?				
	A. 5HT1	B. 5HT2	C. 5	БНТ3		D.	5HT4		
6.	Following are the estrogen	dependent cancers EXCEPT:	:						
	A. Lung cancer	B. Breast cancer	C. U	Jterine cancer		D.	Ovarian cancer		
7.	Risk of prostate cancer in t	he professional bodybuilders	is asso	ciated with the tre	atm	ent of:			
	A. Growth hormone	B. Anabolic steroids	C. I	nsulin		D.	Progesterone		
8.	Development of which orga	n is stimulated by thyroid ho	rmone	s instead of growth	n hoi	rmone	?		
	A. Heart	B. Skeletal muscles	C. I	Bones		D.	Brain		
9.	Which agent acts on the int	racellular receptors?							
	A. Prolactin	B. Insulin	C. 0	Corticosteroids		D.	Growth hormone		
10.	0. Which hypothalamic hormone produces inhibitory effect on a. pituitary?								
	A. Somatostatin	B. CRH	C. (GnRH		D.	TRH		
Q. I	Q. II: Long Answers Questions (Answer any 1 out of 2)								
1.	Classify H1 antihistaminic	drugs. Explain their mechani	sm of a	action, uses and sid	le ef	fects.			
2.	. Classify oral hypoglycemic drugs. Explain mechanism of action, uses and side effects of metformin.								

Q. III: Short Answers Questions (Answer any 2 out of 3)

10 M

- 1. Write a note on oral contraceptives.
- 2. Explain the action of insulin on blood glucose levels.
- 3. Classify antiestrogens. Justify the use of progesterone in combination with estrogen as a post-menopausal hormone replacement therapy.



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Second Sessional Theory Examination 2021-2022 (ODD SEM)

Subject & Subject	Code: PHARMACOLOG	Y-II, BP503T
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Day & Date: Wednesday, 15.12.2021

Class: T. Y. B. Pharm.

Semester: V

Time: 10:30 am-12.00 noon	Max. Marks: 30
Instructions: 1. All questions are compulsory 2. Right hand side number indicates fi	ull marks
QI. Multiple Choice Questions (MCQs)	10
1. Which is the example of quantal bioassay?	
a. Digitalis b. Oxytocin c. ACTH d	. ADH
 Betahistine is used in the management of: a. Meniéré's disease b. Gastric ulcer c. Hunting 	gton's disease d. Asthma
 Which vasodilatory-inflammatory autacoid contributes in short a. Serotonin b. Bradykinin c. Histamine d 	rt-term effects of ACEIs on blood pressure? . Angiotensin
4. Which autacoid transmit pain signal from peripheral sensory range. Thromboxane b. Serotonin c. Prostaglandin E2	
 Which drug acts as a leukotriene receptor antagonist to relieve a. Salbutamol b. Terbutaline c. Montelukast d 	
6. Which drug inhibits ATP sensitive K+ channel in beta cell me a. Repaglinide b. Acarbose c. Dapagliflozin	embrane? d. Metformin
7. Which drug is used in the treatment of PCOS?	
a. Metformin b. Estrogen c. Progesterone d	. All of the above
8. Which glucocorticoid is preferred in cerebral edema due to its a. Betamethasone b. Dexamethasone c.	s inability to cause fluid retention . Prednisolone d. (a) and (b) e. (a) and (c)
9. Which drug is used for the induction of ovulation?a. Clomiphene b. Menotropins (FSH&LH) c. Choriog	gonadotropin α (HCG) d. All of the above
 Which drug is used to suppress LH surge from pituitary so the induced by menotropins (FSH+LH) injection, to harvest pre 	nat a controlled ovarian hyperstimulation can be
	ogonadotropin α d. Estrogen
OII Long Answers (Answer any 1 out of 2)	10

- 1. Classify oral hypoglycemic drugs. Explain mechanism of action, therapeutic uses and adverse effects of metformin.
- 2. Explain therapeutic uses and adverse effects of estrogens. Write the mechanism of action of hormonal contraceptives and emergency contraceptives.

QIII. Short Answers (Answer any 2 out of 3)

10

- 1. Explain therapeutic uses and side effects of H1 antihistamines.
- 2. Define bioassay. Explain its principle and applications.
- 3. Predict the target organ and effect assayed for the following agents:

Drug	Target organ	Effect assayed
Oxytocin		
Serotonin		
Digitalis		
d-Tubocurarine		
ACTH		

BMalchate (Subject-in-charge)



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Second Sessional Theory Examination 2019-2020

Class: T.Y.B. Pharma. Semester: Vth Time: 01.30 pm to 03.00 pm Max. Marks: 30

Subject: Pharmaceutical Jurisprudence (BP505T) Day &Date: Monday 11/11/2019

2 Dra		sory gram wherever necessary	*
		indicates full marks	
		MCQs 10 Marks)	
1. Head Quarter for	,	•	
a. Mumbai	b. Delhi	c. Chennai	d. Kolkata
2. Publications of ad a. Cancer	vertisement is prohi b. Plague	bited that refers the use of c. Tuberculosis	any drug for the treatment of d. All of Above
3. As per MTP act, t a. 7	he pregnancy can be b. 20	terminated up to wee c. 12	k of gestation d. 10
4. The Drug Enquir a. Hathi	y committee is also ob. DPCO	called as committe c. Chopra	e d. Mudaliar
5. The provisions of a. DPEA	DPCO are implement b: MAPE	nted and enforced by c. NPPA	d. None of above
6. A secret production a. Intellectual proper		ring as cs c. Industry research	d. None of Above
7. Who has power to a. Rajyasabha b. I	0.1	of scheduled formulations ate Government	s. d. Central Government
8. Medical termination a. 1971	on of Pregnancy Act b. 1961	t was passed in year c. 1980	d. 1970
9. The science of Mo a. Morality	oral is called as b. Law	c. Act	d. Ethics
10. CPCSEA establi a. Menka Gandhi		ership of c. A.L. Mudaliar	d. Drug Inspector
QII Long Answers	(Answer any 1 out	of 2) 10 Marks	

- 1. Explain the CPCSEA guidelines and Note on IAEC in brief
- 2. Write an account on the code of pharmaceutical ethics framed by the Pharmacy Council of India.

QIII Short Answers (Answer any 2 out of 3)10 Marks

- 1. Write the brief note on DPCO
- 2. Explain in detail about classes of prohibited and exempted advertisements.
- 3. Give the objective and explain in detail legal framework for the Medical Termination of Pregnancy under MTP Act.



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Second Sessional Theory Examination 2020-2021 (Odd SEM)

Subject & Subject Code: Pharmaceutical Jurisprudence (BP505T)

Day & Date: Saturday 15/12/2020

Class: T.Y. B. Pharmacy Semester: V

Time: 10:30 AM to 12:00 PM **Max. Marks**: 30

Instructions: 1. *All questions are compulsory*

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

OI Multiple Choice Questions (MCOs)

- 1. Cure of cancer is an example of the following advertisement
 - A) Prohibited
 - B) Exempted
 - C) Permitted
 - D) Bonafided
- 2. The Main Function of CPCSEA:
 - A) Registration of establishments conducting animal experimentation or breeding of animal for this purpose
 - B) Permission for conducting experiments involving use of animals
 - C) Recommendation for import of animals for use in experiments
 - D) All of the above
- 3. The Term 'Phooka' & 'Doom Dev' is associated with
 - A) Narcotic Drugs & Psychotropic Drug Substance Act 1985
 - B) Drug Price Control Order 2013
 - C) Medical termination of pregnancy act
 - D) The prevention of cruelty to animal act
- 4. MAPE as per DPCO 2013 stand for
 - A) Maximum Allowable Post Manufacturing Expenses
 - B) Minimum Allowable Post Manufacturing Expenses
 - C) Maximum Allowable Price Manufacturing Expenses
 - D) Maximum Allowable Post Manufacturing Excess
- 5. Magic Remedies include
 - A) Mantra
 - B) Talisman
 - C) Kavacha
 - D) All of the above
- 6. Patent is granted for _____ from the filing date of the application
 - A) 5 Years
 - B) 10 Years
 - C) 15 Years
 - D) 20Years
- 7. At the first time in India, a chemist shop was opened in about ----- by Mr. Bathgate
 - A) 1711
 - B) 1946
 - C) 1811
 - D) 1902



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- 8. In 1931 the Indian government appointed a drug Inquiry committee under the chairmanship of
 - A) Lt. Col. R.N. Chopra
 - B) Prof. T.K. Gajjar
 - C) Acharya prafulla Chandra
 - D) Dr. Ashok Gupta
- 9. RTI Act 2005 came into force on
 - A) 12 October 2005
 - B) 15 August 2005
 - C) 15 June 2005
 - D) 1 November 2005
- 10. Places approved for termination of pregnancy may be inspected by
 - A) Drug Inspector
 - B) RMP
 - C) Pharmacist
 - D) Chief Medical Officer

QII Long Answers (Answer any 1 out of 2)

10

- 1. Describe the Institutional animal ethics committee (IAEC) and Write CPCSEA guidelines for breeding and stocking of animals.
- 2. What is a Patent? What are inventions according to Patent Act? Write in brief the procedure of obtaining patent

QIII Short Answers (Answer any 2 out of 3)

- 1. Write the Constitution & function of Narcotic & Psychotropic Consultative committee under narcotic and psychotropic substances Act 1985.
- 2. Describe the role of pharmacist in relation to his Medical Profession.
- 3. Explain the formula used for the calculation of ceiling price and retail price of a formulation as per Drug Price Control 2013.



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Second Sessional Theory Examination-(ODD SEM) 2022-2023

		Second Ses	Sidnai Theory Exami	ma	TIOH-(ODD SEMI)	2022-2023
Sul	oject :	Pharmaceutic	al Jurisprudence (BP50	5T)	Day & Date :	Fri, 06/01/2023
Cla	ss :	Third Year B.	Pharmacy		Semester :	Write Your Seat No. Here
Tin	ne :	02:30 pm – 04	1:00 pm		Max. Marks :	30
nstr	uctions: $\frac{1}{3}$. All questions are o . Right-hand side n	compulsory umber indicates full marks		P. Draw a well-labeled die P. Do not write/ tick on the	agram wherever necessary e question paper
Q. I:		Choice Questions (<u> </u>		,	10 M
1.	is the resin obtained from the cannabis plant (CO3, LL1)					
	A. Ganja		B. Hashish	c. 0	Charas	D. Heroin
2.	According to the Drugs and Magic Remedies act, Magic Remedies Includes: (CO3, LL1)					
	A. Talism	an	B. Kavachas	C. N	Mantras	D. All
3.	According to The Prevention of Cruelty to Animals Act, 1960 Experimentation on animals is carried out for the following purposes except (CO3, LL1)					
	A. New drug Development		B. Vaccines Production	C. N	Medical Research	D. To have the practice
4.	Punishment for contravention in relation to Ganja (CO3, LL1)					
	A. 2 yrs imprisonment and fifty thousand rupees fine		B. 10-20 yrs imprisonment and 1-2 lakh rupees fine		yrs imprisonment and thousand rupees fine	D. 3 yrs imprisonment and fifty thousand rupees fine
5.	Advertisements related to the procurement of miscarriage or prevention of conception in women are by Drugs and Magic Remedies Act (CO3, LL1)					
	A. Exempted		B. Prohibited	C. A	Allowed	D. None
6.	As per the code of pharmaceutical ethics a registered pharmacist cannot do the following except (CO4, LL1)					
	A. Dispense drugs on humanitarian grounds		B. Give first aid treatment in emergencies		Prescribe remedies in ergencies	D. Can practice medicine in emergencies
7.	The Central Information Commission consist of following members except (CO4, LL1)					
	A. The Ch	nief Minister	B. The Prime Minister		eader of Opposition in Sabha	D. Union Cabinet Minister nominate by PM
8.	The time limit (expiry) for the Trademarks is (CO4, LL1)					
	A. 10 Yea	ırs	B. 20 Years	C. :	10 Years and Renewal	D. 20 Years and Renewal
9.	Time limits to get the requested information if application is filed with the PIO (CO4, LL1)					
	A. 40 Day	/S	B. 35 Days	C . 3	0 Days	D. 35 Days
10.	If a person uses someone's song as background music in his/her music video then it could be an act of (CO4, LL1)					
	A. Identit	ty theft	B. Misconduct	C. C	Copyright Infringement	D. No infringement
Q. II	: Long Ans	swers Questions (A	nswer any 1 out of 2)			10 M
	ve functio		Manufacturing of Medicinal a rmaceutical Pricing Authority			•
Q. II	I: Short Ar	nswers Questions (Answer any 2 out of 3)			10 M
1.	Explain in	detail role of Drug	Enquiry Committee in the dev	velor	ment of pharmaceutica	al legislation. (CO4, LL5)

Write a short note on Medical Termination of Pregnancy Act 1971. (CO4, LL5)

What is IPR? Explain the detailed process of application of Patent in India (CO4, LL5)



Institute of Pharmacy, Dhule

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

Second Sessional Theory Examination 2019-2020

Subject: Medicinal Chemistry-II (BP501T) Day & Date: Wed,06 Nov.2019

Class: T.Y.B. Pharm

Semester: V

Time:10.30 am to 12.30 pm

Max. Marks: 30

Instructions: 1. All questions are compulsory

- 2. Draw a well labeled diagram wherever necessary
- 3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

10

1. Basic Nucleus of Steroid is

a. Phenanthrene

1,2-Cyclopentanophenanthrene

c. 1,2-Cyclobutoperhydrophenanthrene

d. 1,2-Cyclopentano anthracene

2. Protein C & S are dependent on which vitamin for synthesis

a. Vitamin C

b. Vitamin B

c. Vitamin E

d. Vitamin K

- 3. Effects of digitalis on the heart includes
- a. Increased conduction velocity through AV node
- b. Positive chronotropic effect
- c. Positive Inotropic Effect
- d. Decreased refractory period of the AV node
- 4. Warfarin contains -----ring
- a. Napthahydroquinone b. 4-Hydroxycoumarin c. Indandione d. None of the above
- 5. Following drugs have steroidal Pharmacophore except

a. Nandrolone

b. Oestriol

. Diethylstilbestrol

d. Progesterone

Following drugs are thyroid drugs except

a. L-Thyroxine

b. L-Thyronine

c. Thyroxine Sodium . Propylthiouracil

7. Following is a long acting insulin

A Insulin Glargine

b. Insulin Lispro

c. Insulin Lente

d. Insulin Glulisine

d. Molded tablet

8. ----- of Sildenafil is used for the treatment Pulmonary Arterial Hypertension (PAR)

Round white tablet

b. Blue Oval tablet c. Compressed tablet

P. Following β Blocker is a methane sulfanilide containing antiarrhythmic agent

a. Propranolol

Ja. Sotalol

c. Pindolol

d. Esmolol

10. Thiazolidinedione's are commonly known as

a. D-Phenylalanine Derivatives

b. Insulin Secretagogues

Glitazones

d. Glinides

QII Long Answers (Answer any 1 out of 2)

- 1. What is Diabetes Mellitus? Classify oral hypoglycemic agents. Give the structure of at least two compounds of each category and write SAR of Sulfonylureas
- 2. Write the SAR of glucorticosteroids with suitable Example

QIII Short Answers (Answer any 2 out of 3)

- 1. What is Hyperlipidemia? write the detailed classification and MoA of anti-hyperlipidemic agents with structures
- 2. Write a note on Norgestrel and Mifepristone as an Oral Contraceptive Drugs.
- 3. What is Hypothyroidism? Write a note on Thyroid Drugs and highlight the SAR of L-Thyroxine



Shri. Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule

Survey No. 499/1, Plot No.3, Behind Gurudwara, Mumbai Agra Highway

Improvement Sessional Theory Examination 2019-2020

Subject: Industrial Pharmacy-I (BP502T)

Day & Date: Friday 15/11/19

Class: Third Year B. Pharm

Semester: V

Time: 10.30 – 12.00 pm

Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

10

1. The optical activity of compound due to Racemization is

a. Zero b. Dextro (+) c. Leavo (-) d. trans rotatory

- 2. Benzalkonium chloride is used as preservative in eye drop against *pseudomonas* aeruginosa in combination with
- a. Butylated Hydroxy Toluene b. DMSO

b. DMSO c. EDTA d. Chlorbutanol

- 3. The formation of compact mass in dry granulation is known as
- a. Slug b. Granules c. Pellets d. Beads
- 4. The vulcanizing agent used in fabrication of rubber closure for parentral product is
- a. Zinc oxide b. Sulfur c. Carbon black d. Mercaptobenzthiazole
- 5. The size of nozzle in inch for High pressure airless system is
- a. 0.9-0.20 b. 20-60 c. 0.020-0.060 d. 0.009-0.020
- 6. Total Solid Content of Water for Injection as per USP is not more than
- a. 10 ppm b. 01 ppm c. 10 ppb d. 01 ppb
- 7. Bloom Strength of Gelatin for hygroscopic drug is
- a. 150 -180 gm b. 180 250 gm c. 150 250 mg d. 100 150 mg
- 8. Total vapour pressure of mixture of propellant can be calculated according to
- a. Raoults law
- b. Ficks First law
- c. Daltons law
- d. Gibbs law
- 9. Propellant used in aerosol for oral and inhalation purpose is
- a. Dimethyl ether b. Nitrous oxide
- c. n-Butane
- d. Tetrafluroethane
- 10. Ratio of Dry Plasticizer / Dry Gelatin for Hard gelatin capsule is
- a. 0.6 b. 0.4 c. 1.2 d. 0.8

Q.II Long Answers (Answer any 1 out of 2)

10

- 1. Define Tablet & Explain in brief about IPQC test for Tablet manufacturing.
- 2. Explain in details about evaluation of Aerosol dosage form.

Q.III Short Answers (Answer any 2 out of 3)

- 1. What is significance of polymorphism and solubility in preformulation study.
- 2. Illustrate in brief about Glass container or Rubber closure.
- 3. Describe in brief about principle of Wet granulation.



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Second Sessional Theory Examination 2021-2022

Subject: Pharmaceutical Jurisprudence **Day & Date:** Friday, 17 /12/2021 Semester: V Class: T.Y.B. Pharm **Time:** 10.30 am-12.00 pm Max. Marks: 30 Instructions: 1. All questions are compulsory 2. Draw a well labeled diagram wherever necessary 3. Right hand side number indicates full marks **QI Multiple Choice Questions (MCQs** 10 Marks Coca leaf contain more than ___ A) 0.2% cocaine B) 0.1% cocaine C) 0.02% cocaine D) 0.02% cocaine 2. The Drug and Magic Remedies Act come into force in the year A) 1954 B) 1955 C) 1956 D) 1957 3. The flowerings and fruiting tops of cannabis plant largely tried as a drug of abuse are called B) Ganja C) Hemp D) Cocaine A) Charas 4. Publication of the advertisement is prohibited that refer to the use of any drug for the treatment of A) Cancer B) Plaque C) Tuberculosis D) All of the above Under the Narcotic Drugs and Psychotropic Drugs Substances Act and rules, the cultivation of opium 5. poppy and the production of opium is supervised by A) Drug controller of India B) Drug Inspector of India C) Narcotic Commissioner D) Director General of Health Services Termination of pregnancy between 12-20 week consent of _____ 6. Registered Medical Practioner. D) 4 A) 1 B) 2 C) 3 The officer designated by the public authorities in all administrative units or offices under it to provide 7. information to the citizens requesting for information under the Act is known as A) Appellate Authority B) Chief Information Commissioner (CIC) C) Public Information Officer (PIO) D) Excise commissioner What is the fee for getting information under RTI Act 8. B) Rs.50/-D) Rs.10/-A) Rs.20/-C) Rs.100/-9. drug use to terminate the pregnancy up to 7 week of gestational C) Isoniazid A) Mifepristrone B) Atenolol D) Omeprazole The Abortion Study Committee, headed by 10. B) Col. R.N. Chopra A) Dr. M. L. Shroff C) Mr. Shantilal Shah D) Joseph Bhore OII. Long Answers (Answer any 1 out of 2) 10 Marks 1. Give objective of drug price control order (DPCO) and explain in detail how prices of drugs are calculated & fixed under DPCO. 2. Enlist the objectives of Prevention of Cruelty to Animals Act and Explain in detail Experimentation on animals under this Act.

QIII. Short Answers (Answer any 2 out of 3)

10 Marks

- 1. Write the provisions for getting the patents rights quoted in Patents Act.
- 2. Give the code of ethics for pharmacist in relation to his job and trade.
- 3. Illustrate the findings and recommendations of drugs enquiry committee.