



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

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

Second Sessional Theory Examination 2018-2019

Subject	: Biochemistry	Day & Date	: 25/04/2019
Class	: F. Y. B. Pharmacy	Semester	: II
Time	: 10:30 am to 12:00 noon	Max. Marks	: 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]

- a Enzyme activity can be measured using _____
a. IU b. Katal
c. Both a & b d. None of the above
- b Conversion of Glutamate to α -ketoglutarate is an example of _____.
a. Transamination b. Oxidative deamination
c. Amination d. None of the above
- c In Purine biosynthesis, _____ is used as precursor
a. pyruvate b. ribose-5-phosphate
c. glucose-6-phosphate d. $\text{CO}_2 + \text{Glutamine}$
- d In starvation condition ketone bodies used as important source of energy to peripheral tissues except _____
a. Cardiac muscle b. erythrocyte
c. skeletal muscle d. renal cortex
- e Aldolase is _____ type of enzyme.
a. lyase b. ligase
c. hydrolase d. oxidoreductase
- f _____ are act as fuel reserve of body and also constitute in membrane structure.
a. Carbohydrates b. Proteins
c. Lipids d. All of the above
- g Cytosomal CPS-II is used in biosynthesis of _____
e. Pyrimidine f. Urea
g. Ornithine h. Carmoyl aspartate
- h _____ is an example of derived lipids
a. Steroid hormone b. Vitamins
c. Diacylglycerol d. All of the above
- i _____ plot is also called as double reciprocal plot
e. Brig's & Handlane f. Michaelis-Menten
g. Hans Kreb's h. Lineweaver-Burk's
- j Amino acids are metabolised into _____.
a. pyruvate b. α -ketoglutarate
c. oxaloacetate d. all of the above

Q.2. Answer the following short questions (*any two*) [10]

- a Discuss the steps involved in pyrimidine biosynthesis. Add a note on hyperuricemia
- b Write short note on *De Novo* synthesis of fatty acid
- c Explain the various steps involved in urea cycle and disorders associated with it.

Q.3. Answer in detail of following (*any one*) [10]

- a Explain the term *enzyme activity*. Describe in detail various factors affecting it. Comment on various types of enzyme inhibition with suitable examples.
- b Discuss the steps involved in β -oxidation of palmitic acid. Add a note on biological significance and disease associated with cholesterol.



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First Sessional Theory Examination 2018-2019

Subject	: Biochemistry	Day & Date	: 27/02/2019
Class	: F. Y. B. Pharmacy	Semester	: II
Time	: 10:30 am- 12:00 pm	Max. Marks	: 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]
- a Carbohydrates are also called as _____
- d a. Polyhydroxy alcohols b. Polyhydroxy esters
c. Amino acids d. Hydrates of carbon
- b _____ forms about 50% of total dry cell weight.
- a a. Protein b. Constant interval
c. Amino acid d. Lipids
- c Pyruvate dehydrogenase is _____ type of enzyme.
- b a. Hydrolase b. Oxidoreductase
c. Lyase d. Ligase
- d Gluconeogenesis favours _____ for glucose production
- c a. Muscle b. Brain
c. Liver d. a & b both
- e S - CONTAINING amino acid is _____.
- c a. Tryptophan b. Isoleucine
c. Methionine d. Tyrosine
- f Myosin is _____ protein.
- c a. structural b. transport
c. Contractile d. storage
- g In Glycolysis _____ is responsible for reduction of NAD⁺ to NADH
- c a. hexokinase b. PFK-1
c. G-3-P dehydrogenase d. None of the above
- h _____ are constituents of membrane structure.
- c a. Carbohydrate b. Protein
c. Lipids d. All of the above
- i Glucose is _____
- c a. Tetrose b. Pentose
c. Hexose d. Heptose
- j NADPH is used in _____ reaction.
- a a. anabolic b. catabolic
c. non-enzymatic d. none of the above
- Q.2. Answer in detail of following (any one) [10]
- a Explain in detail about various steps involved in tricarboxylic acid cycle.
- b Explain in detail about various steps involved in oxidation of glucose in muscle.
- Q.3. Answer the following short questions (any two) [10]
- a What are enzymes? Explain their general properties and factors affecting their activity
- b Write short note on Gluconeogenesis pathway / HMP Shunt
- c Write short note on Electron Transport Chain



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First Sessional Theory Examination 2019-2020
(EVEN SEM)

Subject & Subject Code: Biochemistry (BP203T)

Day & Date: Wednesday 04/03/2020

Class: F.Y B. Pharm

Semester: II

Time: 10.30 am to 12.00 pm

Max. Marks: 30 Marks

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

- Q.1 Multiple Choice Questions [10]
- a Proteins can be mainly identified by _____
- a. presence of peptide linkage b. absence of peptide linkage
c. presence of poly hydroxyl group d. presence of free fatty acid
- b _____ forms about 50% of total dry cell weight.
- a. Protein b. Constant interval
c. Amino acid d. Lipids
- c Beta oxidation of lipids occurs at _____.
- a. Cytosol b. Cell membrane
c. Mitochondria d. Endoplasmic reticulum
- d Gluconeogenesis favours _____ for glucose production
- a. Muscle b. Brain
c. Liver d. a & b both
- e _____ is aromatic amino acid.
- a. Tryptophan b. Isoleucine
c. Methionine d. Tyrosine
- f Pepsin is _____ protein.
- a. structural b. transport
c. enzymatic d. storage
- g In Glycolysis _____ utilizes Mg-ATP complex for oxidation of glucose.
- a. hexokinase b. PFK-1
c. G-3-P dehydrogenase d. None of the above
- h _____ is only pathway that produce ATP in absence of oxygen.
- a. HMP Shunt b. Glycolysis
c. Glycogenesis d. All of the above
- i Cerebroside is simplest form of _____
- a. Phospholipid b. Glycolipid
c. Lipoprotein d. None of the above
- j NADPH is obtained from _____.
- a. Glycolysis b. TCA cycle
c. De novo lipid biosynthesis d. HMP Shunt

- Q.2. Answer the following short questions (*any two*) [10]
- a What are enzymes? Explain their general properties and factors affecting their activity
- b Write short note on glycogen regulation
- c Write short note on De novo biosynthesis of palmitic acid
- d Write short note on Electron Transport Chain

- Q.3. Answer in detail of following (*any one*) [10]
- a Explain in detail about various steps involved in Kreb's cycle.
- b Explain in detail about various steps involved in Embeden-Myerhoff pathway.
- c Write in details about the phases involved in beta oxidation of palmitic acid

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Ist sessional theory examinations 2020-21


Subject: Biochemistry

Max. Marks: 30

Time: 90 minutes

Class: F. Y B. Pharm. Sem-II

Instructions: 1) All questions are compulsory

- 1) Multiple Choice questions. One of the options provide appropriate answer to the question
10
- 1.1) β -pleated sheet is part of which structure of protein
a) primary b) secondary c) tertiary d) quaternary
- 1.2) Maltose is i sugar as it consists of ii functional group. i and ii in the above sentences respectively are
a) i) reducing ii) acetal b) i) non-reducing ii) acetal
c) i) reducing ii) hemiacetal d) i) non-reducing ii) hemiacetal
- 1.3) 18:2;9,12 notation for fatty acid means
a) there are total 18 carbon atoms with two double bonds, one between 8 and 9 carbon and second double bond between carbon 11 and 12
b) there are total 18 carbon atoms with two double bonds, one between 9 and 10 carbon and second double bond between carbon 12 and 13
c) there are total 18 carbon atoms with two triple bonds, one between 8 and 9 carbon and second between carbon 11 and 12
d) there are total 18 carbon atoms with two triple bonds, one between 9 and 10 carbon and second between carbon 12 and 13
- 1.4) Number of ATP equivalent molecules produced in each cycle of citric acid cycle per mole of pyruvic acid are a) 15 moles b) 30 moles c) 12 moles d) 38 moles
- 1.5) The synthesis of urea occurs in (a) Kidney (b) Liver (c) Muscle (d) Brain.
- 1.6) Carnitine shuttle operates between
a) cytosol and nucleus
b) mitochondrial membrane and nucleus
c) cytosol and mitochondrial membrane
d) its non-specific and operates everywhere
- 1.7) When one mole of Palmitic acid undergoes β -oxidation, it produces 8 mole of acetyl CoA and --- moles of NADH and FADH₂ each a) 5 b) 6 c) 7 d) 8
- 1.8) The number of ATP equivalents generated in a pentose phosphate pathway are
a) 1 b) 2 c) 3 d) 0
- 1.9) Thiokinase activates the fatty acid for β -oxidation in
a) mitochondria b) cytosol c) nucleus d) interstitial fluid
- 1.10) Serine undergoes
a) oxidative deamination
b) non-oxidative deamination c) transamination d) all
- 2) Write a note in detail on any one of it 10
a) Glycolysis
b) Citric acid cycle
- 3) Write a short note on any two 10
a) β -oxidation of fatty acids
b) urea cycle
c) classification of amino acids with structures of all
- 



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First Sessional Theory Examination 2021-2022 (Even SEM)

Subject & Subject Code: Biochemistry (BP203T)

Day & Date: Saturday 25/06/2022

Class: F.Y. B. Pharmacy

Time: 2:00 PM to 3:30 PM

Semester: II

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. Sulphur containing Amino Acid is _____.
A) Cystine B) Tyrosine C) Histidine D) Glutamate
2. HMP shunt occurs in _____.
A) Mitochondria B) Cytosol C) Nucleus D) Lysosomes
3. Polysaccharides are _____.
A) Acids B) Oil C) Polymers D) Protein
4. DNA does not contain _____.
A) Uracil B) Adenine C) Thymine D) Cytosine
5. Irreversible reaction in glycolysis is catalysed by _____.
A) Hexokinase B) Triose phosphate isomerase
C) Phosphohexose isomerase D) Phosphoglycerate – Mutase
6. Gluconeogenesis is conversion of _____.
A) Lactate to Glucose B) Pyruvate to Glucose
C) Oxaloacetate to glucose D) All of the above
7. A positive Benedict's test is NOT given by _____.
A) Sucrose B) Lactose C) Maltose D) Glucose
8. All are the component of ETC, Except _____.
A) Cytochrome a3 B) Cytochrome c C) Cytochrome-Q D) Coenzyme-Q
9. The conversion of ribulose-5- phosphate to xylulose-5-phosphate with the help of enzyme _____.
A) Isomerase B) Anomerase C) Epimerase D) Reductase
10. The carbohydrate that is taken as a reference for writing the configuration of Others.
A) Glucose B) Glyceraldehyde C) Erythrose D) Dihydroxyacetone

QII Long Answers (Answer any 1 out of 2)

10

1. Why Krebs cycle called citric acid and TCA cycle? Give detail account on TCA cycle with energetics of kreb cycle.
2. What is glycolysis? Explain reaction involved in glycolysis with generation of ATP.

QIII Short Answers (Answer any 2 out of 3)

10

1. Define amino acid. Classify them based on their chemical nature. (Draw structure of each class)
2. Define following with suitable example
a) Epimer b) Enantiomer c) Isoelectric point d) Nucleotide e) mitochondria: the power house of the cell
3. What is ETC and Describes its mechanism?



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

Subject : Biochemistry (BP203T)	Day & Date : Mon, 10/07/2023	Write Your Roll No. Here <input type="text"/>
Class : First Year B. Pharmacy	Semester : I	
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

Q. I: Objective Type Questions	10 M
1. Define the following term. (CO1, CO2, LL1) i) Protein ii) Transamination	
2. Enlist the enzyme involve in the irreversible reaction of gluconeogenesis. (CO2, LL1)	
3. Draw the structure of Tyrosine and Tryptophan. (CO1, LL1)	
4. Why Kreb cycle is called as TCA cycle. (CO2, LL1)	
5. What is Nucleic acid and give its example. (CO1, LL1)	

Q. II: Long Answers Questions (Answer any 1 out of 2)	10 M
1. Explain Embden Meyerhof pathway and write its significance. (CO2, LL3)	
2. Explain Hexose monophosphate shunt pathway and add a note on its significance. (CO2, LL3)	

Q. III: Short Answers Questions (Answer any 2 out of 3)	10 M
1. What is oxidative phosphorylation? Explain the mechanism of oxidative phosphorylation in detail. (CO1, LL3)	
2. Outline the biosynthesis of Dopamine, Adrenaline and Noradrenaline. (CO1, LL3)	
3. Define and classify the carbohydrate with one example of each class. (Any Two) (CO1, LL3)	



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First Sessional Theory Examination 2021-2022
(EVEN SEM)

Subject & Subject Code: Computer Application in Pharmacy

Day & Date: Tuesday, 28/06/2022

Class: F.Y and DSY B. Pharm

Semester: II/ IV

Time: 2:00 pm to 3:30 pm

Max. Marks: 30 Marks

- Instructions: 1. All questions are compulsory*
2. Draw a well labeled diagram wherever necessary
3. Right hand side number indicates full marks

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

10 M

1. Enlist the applications of computers in Pharmacy and explain any four in detail
2. What is a binary number system? With the help of the given example, give step by step procedure for conversion of the decimal number system to a binary number system.
a) $(321.12)_{10}$ b) $(4563)_{10}$

QII. Short Answers (Answer any 4 out of 6)

20 M

1. Define Computer, Describe in detail the parts of a computer with suitable example.
2. Solve the following by given example (fill in the blanks in given table.)

Binary number	Decimal number	Octal number	Hexadecimal number
11101			
	78		
		77	

3. Write about the Application of computers in Pharmacokinetics
4. Note on - Information System
5. Draw a block diagram of computer and write the difference between Software and Hardware
6. What is number system? Gives number of symbols with mentioning all supported symbols for all four number systems.



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

Subject :	Computer Application (BP 205T)	Day & Date :	Wednesday, 12/07/2023
Class :	First Year B. Pharmacy	Semester :	II
Time :	10:30 am – 12:00 pm	Max. Marks :	30

Write Your Roll No. Here

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

QI	Long Answers (Answer any 1)	10 M
1.	Explain the applications of computer in pharmacy? Write short note on BCMA (CO3, LL2)	
2.	Define Bioinformatics? Describe in detail impact of bioinformatics in vaccine (CO4, LL1)	

QII	Short Answers Question (Answer any 4)	20 M
1.	Describe in detail on Drug Information Storage and Retrieval (CO3, LL2)	
2.	Explain e-prescribing and write its benefits? (CO3, LL2)	
3.	Explain the patient monitoring system and explain how it works? (CO3, LL2)	
4.	Illustrate the term Laboratory Information management System (LIMS) (CO4, LL2)	
5.	Classification of bioinformatics databases? (CO4, LL2)	
6.	Explain the objective and areas of bioinformatics? (CO4, LL2)	



First Sessional Theory Examination 2019-2020
(EVEN SEM)

Subject & Subject Code: Computer Application in Pharmacy

Day & Date: Saturday 07/03/2020

Class: F.Y and DSY B. Pharm

Semester: II/ IV

Time: 10.30 am to 12.00 pm

Max. Marks: 30 Marks

- Instructions:*
1. All questions are compulsory
 2. Draw a well labeled diagram wherever necessary
 3. Right hand side number indicates full marks

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

10 M

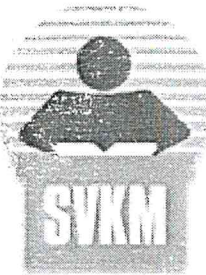
1. Enlist the applications of computer in Pharmacy and explain any four in details
2. What is binary Number System? Give step by step conversion procedure for converting Decimal number to binary number and convert the following
 - a) $(122.256)_{10}$
 - b) $(231)_{10}$

QII Short Answers (Answer any 4 out of 6)

10 M

1. Define Computer, Describe in details the components of computer system with suitable example.
2.
 - a) Convert binary number 101011_2 to Decimal
 - b) Convert Hexadecimal number ABC_{16} to Decimal
 - c) Convert Hexadecimal number $10AF_{16}$ to Binary
 - d) Convert Decimal number 1234_{10} to Hexadecimal
 - e) Convert 125_{10} to Binary number
3. Define e-prescription, Write about Barcode system use in Pharmacy
4. Write a brief note on Data Flow Diagram
5. What is HTML? Explain any four Elements and Tags of HTML
6. What is number system? Give detail account of Binary Number, Decimal Number, Hexa decimal number and octal number system.

****BEST OF LUCK****



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First Sessional Theory Examination 2020-2021
(EVEN SEM)

Subject & Subject Code: Computer Application in Pharmacy

Day & Date: Tuesday, 20/07/2021

Class: F.Y and DSY B. Pharm

Semester: II/ IV

Time: 10.30 am to 12.00 pm

Max. Marks: 30 Marks

- Instructions: 1. All questions are compulsory*
2. Draw a well labeled diagram wherever necessary
3. Right hand side number indicates full marks

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

10

1. Define Computer, Enlist the applications of computer in Pharmacy and explain any four in details
2. What is binary Number System? Perform $(15)_{10} - (28)_{10}$ in binary

QII Short Answers (Answer any 4 out of 6)

20

1. Write the difference between software and Hardware, Write a brief note on Hardware
2. Find $(6AC)_{HEX} = (?)_{10}$
3. What is EP system? Write about Barcode identification system use in Pharmacy
4. Write a brief note on Data Flow Diagram
5. Convert $(364.25)_8$ into its equivalent decimal no.
6. Write Short Note on - a. Pharmacokinetics
b. Lab Diagnostic system



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First Sessional Theory Examination 2018-2019

Subject: Computer Applications in Pharmacy **Day & Date:** March 1, 2019 Friday

Class: F. Y. and S.Y. B. Pharm (DA) **Semester: II**

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 Long Answer Question (Solve Any One) 10

1. What is binary Number System? Give step by step conversion procedure for converting Decimal number to binary number and convert the following a) $(122.256)_{10}$ b) $(231)_{10}$
2. What are biological databases? How to analyze the databases, give detailed account of 5 different biological database includes the following, database name, Source, availability, description, key concept of annotation etc.

QII Short Answer Questions (Answer any 4 out of 6) (Each carries 5 Marks) 20

1. Write Note On following points
 - a. Punch Card
 - b. Deckwriter
 - c. Mechanical Calculator
 - d. Slide Rule
2. Define Computer, Describe in details the components of computer system with suitable example.
3. What is number system? Give detail account of Binary Number, Decimal Number, Hexa decimal number and octal number system?
4. Write down about basic concept of information storage and differentiate between Natural Language and Controlled Vocabulary process
5. What is information retrieval system? Describe in details types of information retrieval techniques
6. What is Ontology? give detailed account of Drug ontology and cell line ontology



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First Sessional Theory Examination 2018-2019

Subject: Environmental Sciences

Class: FY/DSA

Day & Date: Friday, 2 March. 2019

Semester: Second

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 Long Answers (Answer any 1)

10*1

- (1) Explain the importance of Renewable & Non-renewable energy resources.
- (2) What is structure & function of ecosystem? Explain it in detail.

QII Short Answers (Answer any 4)

4*5

- (1) Explain the importance of Natural resources.
- (2) State the problems associated with natural resources.
- (3) Write a detailed note on Forest Resources.
- (4) Explain in detail the concept of ecosystem.
- (5) What are energy resources? State their importance.
- (6) State your role in the conservation of natural resources.



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First Sessional Theory Examination 2019-2020
(EVEN SEM)

Subject & Subject Code: Environmental Sciences (BP206T)

Day & Date: Friday 06/03/2020

Class: F.Y. B. Pharma and DSY

Semester: II/IV

Time: 10. 30 a.m to 12.00 noon

Max. Marks: 30 marks

Instructions: 1. All questions are compulsory

2. Draw a well labeled diagram wherever necessary

3. Right hand side number indicates full marks

QI Long Answers (Answer any ONE)

1*10

- (1) State the significance of Renewable & Non-renewable energy resources in the conservation of environment.
- (2) Explain the structure & function of ecosystem in detail emphasizing its role in ecological balance.

QII Short Answers (Answer any FOUR)

4*5

- (1) Explain the impact of Natural resources on environment and economy of the nation.
- (2) State the problems associated with natural resources.
- (3) "Forest: An asset to balance the environment" elucidate the statement.
- (4) Explain the significance of 'Ecosystem' in human life.
- (5) What are energy resources? State their importance.
- (6) State your role in the conservation of environment.

****BEST OF LUCK****



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First Sessional Theory Examination 2020-2021

**Subject: Environmental
Sciences**

Day & Date: Thursday, 22, July 2021

Class: FY

Semester: Second

Time: 02.30PM-04.00PM

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*

QI Long Answers (Answer any ONE)

1*10

- (1) Explain the structure & function of ecosystem in detail emphasizing its role in ecological balance. (CO2)
- (2) State the significance of Renewable & Non-renewable energy resources in the conservation of environment. (CO1)

QII Short Answers (Answer any FOUR)

4*5

- (1) State the problems associated with natural resources. (CO1)
- (2) Explain the impact of Natural resources on environment and economy of the nation. (CO1)
- (3) "Forest: An asset to balance the environment" elucidate the statement.(CA2)
- (4) Explain the significance of 'Ecosystem' in human life. (CO2)
- (5) State your role in the conservation of environment. (CO1)
- (6) What are energy resources? State their importance. (CO1)

-----END-----



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First Sessional Theory Examination 2021-2022

Subject: Environmental Sciences

Day & Date: Wednesday, 29 June 2022

Class: FY/ DSA

Semester: Second

Time: 02.30 to 03.30 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) Long Answer Question (Any One) (CO1)

1*10

1. Explain Multidisciplinary nature of Environmental Studies in detail. (Unit 01)
2. Discuss the role of Renewal and Non-renewal Resources. (Unit 01)

QII) Short Answer Questions.

Section A: (Any One) (CO1)

1*5

1. Forest Resources. (Unit 01)
2. Water Resources. (Unit 01)

Section B: (Any Three) (CO2)

3*5

1. What is Ecosystem? Explain its importance. (Unit 02)
2. Explain the Structure and function of Ecosystem. (Unit 02)
3. What are the types of Ecosystem? Elucidate them. (Unit 02)
4. Explain your individual initiative to nurture Ecosystem. (Unit 02)

-----END-----

Mapping of Course Outcome with First Sessional Theory Examination (AY 2021-22)

Subject: Environmental Sciences

Course Outcome	Questions	Marks
CO 2061: Describe the multidisciplinary nature of Environmental Sciences and signify the role of Energy Resources. (<i>Level: 1</i>)	QI: 1, 2, 3, 4	15
CO 2062: Identify the significance of Ecosystem along with its structure and function. (<i>Level: 2</i>)	QII: 1, 2, 3, 4	15

Prepared by

Verified by

Approved by



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First Sessional Theory Examination 2020-2021 (Even SEM)

Subject & Subject Code: Human Anatomy & Physiology II (BP201T)

Day & Date: Thursday, 15.07.2021

Class: First Year B. Pharm

Semester: II

Time: 10.30 AM to 12.30PM

Max. Marks: 30

Instructions: 1. All questions are compulsory.

2. Draw a well labelled diagram wherever necessary.

3. Right hand side number indicates full marks.

Q.I Multiple-choice questions (MCQs)

10

1. The nerve cells are derived from ---

- a. Glial Cells b. Spongioblast c. Neuroblast d. Medulloblast

2. ----- neurons found in retina of eye.

- a. Apolar b. Unipolar c. Multipolar d. Bipolar

3. ---- are responsible for formation and maintenance of myelin sheath around CNS neurons

- a. Schwann cell b. Oligodendrites c. Microglia d. Astrocytes

4. ---- meninges is closet to brain and spinal cord

- a. Pia matter b. Arachnoid
c. Dura matter d. All of the above

5. Frontal lobe of cerebrum is also called as

- a. Sensory cortex b. Motor cortex
c. Visual cortex d. Auditory cortex

6. ----- gastric secretory cells secrete hydrochloric acid

- a. Chief cells b. Mucous cells
c. Parietal cells d. G cells

7. Pancreatic ---- cells secrete insulin

- a. α cells b. β cells c. δ cells d. γ cells

8. Structurally upper respiratory system consists of EXCEPT

- a. Nose b. Pharynx c. Nasal cavity d. Trachea



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9. Alveolar fluid acts as

- a. Lubricant
- b. Surfactant
- c. Both a & b
- d. None of above

10. The is the exchange of gases between the alveoli of the lungs and the blood in pulmonary capillaries across the respiratory membrane is called as

- a. Pulmonary Ventilation
- b. Breathing
- c. Internal respiration
- d. External respiration

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

10

1. Draw a neat well labelled diagram of neuron. Explain the structure and function of neuron.
2. Explain in detail about structure and functions of cerebrum.

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

10

1. Draw a neat well labelled diagram of liver. Explain the structure and functions of liver.
2. Explain in detail about role of creatinine in muscles.
3. Draw a neat well labelled diagram of lung. Explain the structure and functions of lung.

***** END*****

First Sessional Theory Examination 2018-2019

Subject: Human Anatomy and Physiology II
Class: F. Y. B. Pharm
Time: 10:30-12:00 PM

Day & Date: Monday, 25.2.2019
Semester: II
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

- 1) Enzymes that digest fats have a general name
a) Lipase b) Trypsin c) Maltase D) Fatase
- 2) Mechanical breakdown of food is due to
a) Hydrochloric Acid b) Pepsin c) Chewing D) Peristalsis
- 3) Removal of waste products from body is known as
a) Egestion b) Ingestion c) Digestion D) Absorption
- 4) General name for enzymes which digest Proteins is
a) Pepsin b) Renin c) Maltase d) Protease
- 5) Mass movement in the colon after meal is due to the following except:
a) Gastrocolic reflex b) Duodenocolic reflex c) Gastrin hormone d) Secretine hormone
- 6) Which of the following is not true concerning the liver
a) The left hepatic duct joins the cystic duct from the gallbladder.
b) As blood passes through the sinusoids, it is processed by hepatocytes and phagocytes.
c) Processed blood returns from the liver to systemic circulation through the hepatic veins.
d) The liver receives oxygenated blood through the hepatic artery.
- 7) Which of the following hormone is involved in regulating water salt balance in blood
a) ADH b) ANH c) Aldosterone d) cortisone
- 8) What is the function of insulin?
a) Agonistic to glucagon b) Decreases glycogen storage in liver and muscle
c) Reduces hyperglycemia d) All of the above
- 9) Which statement is false?
a) The endocrine system is composed of ductless glands
b) Contents of the endocrine system are released into the bloodstream
c) The mammary gland is part of the endocrine system
d) Exocrine glands are not part of the endocrine system
- 10) What is the target of ACTH?
a) Mast cells b) Thyroid gland c) Mammary glands d) Adrenal cortex

QII Long Answers (Answer any 1 out of 2)

10 marks

1. Define hormone. Explain in detail biosynthesis, storage and release of thyroid hormone. Add a note on its function
2. Write a note on anatomy and functions of stomach with neat labelled diagram. Explain in detail mechanical and chemical digestion in stomach Add a note on physiology of acid production.

QIII Short Answers (Answer any 2 out of 3)

10 marks

1. Write a note of adrenal corticosteroids
2. Explain in details various functions of liver
3. Classify hormone write the mechanism of action of lipid soluble hormone.



First Sessional Theory Examination 2019-2020
(EVEN SEM)

Subject & Subject Code: HAP-II (BP201T) Day & Date: Monday 2.3.2020
Class: F. Y. B. Pharm Semester: II
Time: 10:30-12:00 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) **Enzymes that digest fats have a general name**
a) Lipase b) Trypsin c) Maltase D) Fatase
- 2) **Mechanical breakdown of food is due to**
a) Hydrochloric Acid b) Pepsin c) Chewing D) Peristalsis
- 3) **Removal of waste products from body is known as**
a) Egestion b) Ingestion c) Digestion D) Absorption
- 4) **General name for enzymes which digest Proteins is**
a) Pepsin b) Renin c) Maltase d) Protease
- 5) **Mass movement in the colon after meal is due to the following except:**
a) Gastrocolic reflex b) Duodenocolic reflex
c) Gastrin hormone d) Secretine hormone
- 6) **Which of the following is not true concerning the liver**
a) The left hepatic duct joins the cystic duct from the gallbladder.
b) As blood passes through the sinusoids, it is processed by hepatocytes and phagocytes.
c) Processed blood returns from the liver to systemic circulation through the hepatic veins.
d) The liver receives oxygenated blood through the hepatic artery.
- 7) **Which of the following hormone is involved in regulating water salt balance in blood**
a) ADH b) ANH c) Aldosterone d) cortisone
- 8) **What is the function of insulin?**
a) Agonistic to glucagon
b) Decreases glycogen storage in liver and muscle
c) Reduces hyperglycemia d) All of the above



9) Which statement is false?

- a) The endocrine system is composed of ductless glands
- b) Contents of the endocrine system are released into the bloodstream

- c) The mammary gland is part of the endocrine system
- d) Exocrine glands are not part of the endocrine system

10) What is the target of ACTH?

- a) Mast cells
- b) Thyroid gland
- c) Mammary glands
- d) Adrenal cortex

QII Long Answers (Answer any 1 out of 2)

10

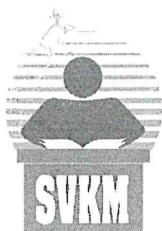
1. Define hormone. Explain in detail biosynthesis, storage and release of thyroid hormone. Add a note on its function
2. Write a note on anatomy and functions of stomach with neat labelled diagram. Explain in detail mechanical and chemical digestion in stomach Add a note on physiology of acid production.

QIII Short Answers (Answer any 2 out of 3)

10

1. Write a note of pancreas and composition of pancreatic juice
2. Explain in details various functions of liver
3. Classify hormone write the mechanism of action of lipid soluble hormone.

****BEST of LUCK ****



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First Sessional Theory Examination 2020-2021 (Even SEM)

Subject & Subject Code: Human Anatomy & Physiology II (BP201T)

Day & Date: Thursday, 15.07.2021

Class: First Year B. Pharm

Semester: II

Time: 10.30 AM to 12.30PM

Max. Marks: 30

Instructions: 1. All questions are compulsory.


2. Draw a well labelled diagram wherever necessary.

3. Right hand side number indicates full marks.

Q.I Multiple-choice questions (MCQs)

10

- The nerve cells are derived from ---
a. Glial Cells b. Spongioblast c. Neuroblast d. Medulloblast
- neurons found in retina of eye.
a. Apolar b. Unipolar c. Multipolar d. Bipolar
- are responsible for formation and maintenance of myelin sheath around CNS neurons
a. Schwann cell b. Oligodendrites c. Microglia d. Astrocytes
- meninges is closet to brain and spinal cord
a. Pia matter b. Arachnoid
c. Dura matter d. All of the above
- Frontal lobe of cerebrum is also called as
a. Sensory cortex b. Motor cortex
c. Visual cortex d. Auditory cortex
- gastric secretory cells secrete hydrochloric acid
a. Chief cells b. Mucous cells
c. Parietal cells d. G cells
- Pancreatic ---- cells secrete insulin
a. α cells b. β cells c. δ cells d. γ cells
- Structurally upper respiratory system consists of EXCEPT
a. Nose b. Pharynx c. Nasal cavity d. Trachea


Mr. Abdulla Sherikar



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9. Alveolar fluid acts as

- a. Lubricant
- c. Both a & b

- b. Surfactant
- d. None of above

10. The is the exchange of gases between the alveoli of the lungs and the blood in pulmonary capillaries across the respiratory membrane is called as

- a. Pulmonary Ventilation
- c. Internal respiration

- b. Breathing
- d. External respiration

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

10


1. Draw a neat well labelled diagram of neuron. Explain the structure and function of neuron.
2. Explain in detail about structure and functions of cerebrum.

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

10

1. Draw a neat well labelled diagram of liver. Explain the structure and functions of liver.
2. Explain in detail about role of creatinine in muscles.
3. Draw a neat well labelled diagram of lung. Explain the structure and functions of lung.

*** END***


Mr. Abdulla Slerikar



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First Sessional Theory Examination 2021-2022 (Even SEM)

Subject: Human Anatomy & Physiology-II (BP 201T) **Day & Date:** Thursday 23/06/2022

Class: F. Y. B. Pharm

Semester: II

Time: 02:00 PM to 03.30 pm

Max. Marks: 30

- Instructions: 1. All questions are compulsory.
2. Draw a well labelled diagram wherever necessary.
3. Right hand side number indicates full marks.

Q I Multiple Choice Questions (MCQs)

10

- is the basic unit of the nervous system
A. Glial cell B. Meninges C. Neuron D. Cerebrospinal fluid
- The primary auditory cortex is located in ---- lobe
A. Frontal B. Parietal C. Temporal D. Occipital
- Pons, cerebellum and medulla are part of which brain?
A. Hindbrain B. Midbrain C. Forebrain D. None of the above
- The Schwann cells form a myelin sheath around the --
A. Dendrites B. Cell body C. Nucleus D. Axon
- Impulse conduction is fastest in neurons that are ---
A. Unmyelinated B. Myelinated C. Sensory D. Motor
- Where does most of the digestive process take place?
A. Small intestine B. Large intestine C. Stomach D. Mouth
- _____ stimulates the production of gastric juice in the stomach
A. Enterokinase B. Gastrin C. Rennin D. Digestin
- Which of the following is not a human salivary gland?
A. Parotid B. Submaxillary C. Sublingual D. Infra-orbital
- Which word best describes the action of bile on fats
A. Neutralises B. Digests C. Emulsifies D. Absorbs
- The toxic substance are detoxicated in the human body by ---
A. Lungs B. Liver C. Kidneys D. Stomach

QII Long Answers (Answer any 1 out of 2)

10

- Draw a neat and well labelled diagram of neuron. Explain the sequence of events occurred during nerve action potential.
- Draw a neat and well labelled diagram of spinal cord. Explain the mechanism of reflex arc.

QIII Short Answers (Answer any 2 out of 3)

10

- Enlist the organs of digestive system. Explain the functions of digestive system.
- Draw a neat well labelled diagram of liver. Explain the structure and function of liver.
- Draw a neat well labelled diagram of lung. Explain the structure and function of lung.



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

Subject : Human Anatomy & Physiology - II (BP201T)	Day & Date : Friday, 07/07/2023
Class : First Year B. Pharmacy	Semester : II
Time : 10.30 am to 12.00 pm	Max. Marks : 30
Write Your Seat No. Here <input type="text"/>	

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

Q. I: Objective Type Questions (5 X 2)

10 M

1. Write the functions of hypothalamus (CO1, LL2)
2. Write the composition of Cerebrospinal fluid (CO1, LL2)
3. Define the term synapses and pulmonary ventilation (CO1 and CO2, LL2)
4. Enlist the organs of digestive system (CO2, LL2)
5. Draw a neat and well-labelled diagram of lungs (CO2, LL2)

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

10 M

1. Draw a neat and well-labelled diagram of neuron. Explain in detail about steps involved in the action potential of neuron (CO1, LL2)
2. Draw a neat and well-labelled diagram of spinal cord. Explain in detail about reflex arc. (CO1, LL2)

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

10 M

1. Explain about pulmonary ventilation. (CO2, LL2)
2. Draw a neat and well-labelled diagram of digestive system. Explain the functions of digestive system (CO2, LL2)
3. Draw a neat and well-labelled diagram of stomach. Explain the mechanism of acid secretion (CO2, LL2)



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First Sessional Theory Examination 2020-2021
(Even SEM)

Subject & Subject Code: Pathophysiology (BP204T)

Day & Date: Monday, 19.07.2021

Class: S. Y. Pharm

Semester: II

Time: 10.30 – 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. Asthma is the _____ hypersensitivity reaction
A. Type II B. Type IV C. Type I & II D. Type I
2. Which of the following is not the etiological factor for intrinsic pump failure?
A. IHD B. Myocarditis C. Cardiomyopathy D. Atherosclerosis
3. Pre-hypertension is the condition in which systolic BP is _____
A. 120-139 mmHg B. 130-150 mmHg C. 140-150 mmHg D. 130-145 mmHg
4. A programmed and coordinated cell death is also called as _____
A. Autolysis B. Apoptosis C. Necrosis D. Cell Injury
5. When overall red blood cells count decrease but size is normal such type of anemia is known as
A. Normocytic B. Hypochromic C. Microcytic D. Macrocytic
6. Which diagnostic test would be monitored to evaluate glomerular filtration rate and renal function?
A. Serum creatinine and BUN B. Urinalysis C. Kidney biopsy D. Creatinine clearance
7. Which of the following is pain sign of inflammation
A. Rubor B. Tumor C. Calor D. Dolor
8. FESSAS BODIES is characteristics of which type of hematological diseases
A. Leukemia B. Thalassemia C. Anemia D. Hemophilia
9. Megaloblastic anemia is due to deficiency of
A. Vit. B12 and Folic acid B. Iron C. Erythropoietin D. Protein
10. Barium swallow is diagnostic procedure for the investigation of _____.
A. Cancer B. PUD C. Leprosy D. Tuberculosis



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QII Long Answers (Answer any 1 out of 2)

10

1. Define and classify the congestive heart failure and explain in detail types & pathophysiology of CHF.
2. Explain in details pathogenesis of cell injury.

QIII Short Answers (Answer any 2 out of 3)

10

1. Discuss the aetiopathogenesis of Asthma.
2. Explain in short about Thalassemia.
3. Explain about peptic ulcer.



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First Sessional Theory Examination 2021-2022

(Even SEM)

Subject	: Pathophysiology (BP204T)	Day & Date	: Mon, 27/06/2022
Class	: First Year B. Pharmacy	Semester	: II
Time	: 02:00 pm – 03:30 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 M

1. In hypoxic cell injury, cell swelling occurs because of increased intracellular____
a) Water b) Lipids c) Protein d) Glucagon
2. Which of the following is a feature of apoptosis
a) Cellular swelling b) Chromatin condensation c) Karyolytic d) None of above
3. Irreversible cell injury is characterized by____
a) Cell swelling b) Lysosomal rupture c) Cell membrane defects d) Chromatin clumping
4. The first event in inflammation is____
a) Diapedesis b) Stasis c) Vasodilation d) Vasoconstriction
5. Macrophages are derived from____
a) Monocytes b) T-Cells c) B-cells d) Eosinophils
6. Chronic ischemic heart disease is most often due to____
a) Vasospasm b) Atherosclerosis c) Hypertension d) Embolism
7. COPD is mostly caused due to____
a) Pollution b) Pollens c) Smoking d) Dust
8. In ____ type of angina the seizures appear due to physical exertion or emotional stress.
a) Prinzmetals b) Variant c) Unstable d) Classical
9. Acute damage to renal structures results in____
a) Pre-renal failure b) Post-renal failure c) Intra-renal failure d) All of the above
10. In Sickle Cell Anemia changes in ____ chain of hemoglobin.
a) α - globulin b) β -globulin c) Both (a) and (b) d) None of the above

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

10 M

1. Explain the etiopathogeneses of cell injury and adaptation.
2. Give signs and symptoms of the inflammation. Describe the pathogenesis of inflammation by summarizing chemical mediators of the inflammations.

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

10 M

1. Write etiology, pathogenesis and complication of congestive heart failure.
2. Explain the etiopathogeneses of asthma.
3. Write note on megaloblastic anemia.

----- **ALL THE BEST!** -----



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Mapping of Course Outcome with Second Sessional Theory Examination (2020-2021)

Course Outcomes	Questions	Marks
CO 204.1: Describe the principles of Cell Injury and Adaptation, mechanisms involved in inflammation and repair. (<i>Level 1</i>)	Q.I- 1, 2, 3, 4, 5	25
	Q.II- 1, 2	
CO 204.2: Outline the etiology and pathogenesis of the selected diseases of cardiovascular, respiratory and renal system along with hematological diseases. (<i>Level 1</i>)	Q.I- 6, 7, 8, 9, 10	20
	Q.III- 1, 2, 3	

SVKM's Institute of Pharmacy, Dhule

First Sessional Examination 2018-19

Subject: Pathophysiology

BP204T

Class: B. Pharm (Sem II)

Total Marks: 30

Time: 10.30 am to 12.00pm

Roll. No.:

Day & Date: Thursday 28/02 /2019

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 x 1)

(10)

1) Dysplasia refers to _____

- a) Change in morphology b) Change in Number
c) Change in cell type d) Change in cell size

2) All are the features of Apoptosis except

- a) Increase in cell size b) Cell bodies
c) cytoplasmic blebs d) Chromatin condensation

3) Myofibroblasts are seen in _____

- a) Healing wound b) Cancerous site c) Adipose tissue d) Muscle septae

4) Cells most sensitive to hypoxia are _____

- a) Myocardial cell b) Neurons c) Hepatocyte d) Renal tubular epithelial cell

5) All of the following are examples of vasoactive amines cell derived mediators of inflammation except.

- a) Histamine b) 5-Hydroxytryptamine c) Neuropeptides d) Cytokines

6) Necrosis means _____

- a) Efflux of calcium b) Swelling of cell c) Enzymatic degradation d) Fat deposition

7) All of the following causes left side heart failure except

- a) Cor pulmonale b) Systemic hypertention c) Mitral stenosis d) Aortic stenosis

8) Meaning of infarction is _____

- a) Aorta death b) Artery death c) Tissue death d) Muscle death

9) Primary cause of heart failure is _____

- a) Arterial hypertension b) Coronary atherosclerosis
c) Myocardial dysfunction d) Valvular dysfunction

10) The emphysema in nonsmoker is due to deficiency of _____

- a) Alpha 2 antitrypsin b) Alpha 1 antitrypsin
c) Beta 2 antitrypsin d) Alpha 1 trypsin

Q2. Answer any two

(10)

1. Define Asthma, Enlist etiological factors & explain its pathogenesis.
2. Explain etiology, pathogenesis & signs & symptoms of Hypertension.
3. Enlist causes of cell injury. Explain any two mechanisms of cell injury.

Q3. Answer any one :

(10)

1. Define inflammation. Enlist clinical signs & types. Explain vascular & cellular events involved in inflammation.
2. Define atherosclerosis. Enlist etiologic factors & Explain with neat labeled diagram pathogenesis with sign & symptoms.



First Sessional Theory Examination 2019-2020
(EVEN SEM)

Subject & Subject Code: Pathophysiology (BP204T)

Day & Date: Thursday 05/03/2020

Class: F.Y. B. Pharma

Semester: II

Time: 10. 30 a.m to 12.00 noon

Max. Marks: 30 marks

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. HIV attack _____ immune cells

- A. Cytotoxic T cells B. Macrophage
C. B-lymphocytes D. Helper T cells

2. Asthma is the _____ hypersensitivity reaction

- A. Type II B. Type IV C. Type I & II D. Type I

3. Which of the following is not the etiological factor for intrinsic pump failure?

- A. IHD B. Myocarditis
C. Cardiomyopathy D. Atherosclerosis

4. Pre-hypertension is the condition in which systolic BP is _____

- A. 120-139 mmHg B. 130-150 mmHg
C. 140-150 mmHg D. 130-145 mmHg

5. A programmed and coordinated cell death is also called as _____

- A. Autolysis B. Apoptosis C. Necrosis D. Cell Injury

6. Escape of red cells into the extravascular space through gaps between the endothelial cells is known as _____

- A. Pavementing B. Margination C. Emigration D. Diapedesis

7. The adaptive response may consist of following except.

- A. Atrophy B. Hypertrophy C. Hyperplasia D. Apoptosis

8. Which diagnostic test would be monitored to evaluate glomerular filtration rate and renal function?

- A. Serum creatinine and BUN B. Urinalysis

C. Kidney biopsy

D. Creatinine clearance

9. Which of the following is pain sign of inflammation?

A. rubor

B. tumor

C. calor

D. dolor

10. Leukotrienes are derived from arachidonic acid through the help of this enzyme:

A. Phospholipase

B. Lipoxygenase

C. Cyclooxygenase

D. Lipoxins

QII Long Answers (Answer any 1 out of 2)

10

1. What is cell adaptation? Enlist cell adaptation with example. Write note on morphological changes associated with cell injury.

2. Define and classify the congestive heart failure and explain in detail types & pathophysiology of CHF

QIII Short Answers (Answer any 2 out of 3)

10

1. Discuss mode of transmission and Pathogenesis of AIDS.

2. Evaluate aetiopathogenesis of Asthma.

3. Explain the pathophysiology of hypertension.

****BEST OF LUCK****



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First Sessional Theory Examination 2020-2021
(Even SEM)

Subject & Subject Code: Pathophysiology (BP204T)

Day & Date: Monday, 19.07.2021

Class: S. Y. Pharm

Semester: II

Time: 10.30 – 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

- Asthma is the _____ hypersensitivity reaction
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A. Rubor B. Tumor C. Calor D. Dolor
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A. Leukemia B. Thalassemia C. Anemia D. Hemophilia
- Megaloblastic anemia is due to deficiency of
A. Vit. B12 and Folic acid B. Iron C. Erythropoietin D. Protein
- Barium swallow is diagnostic procedure for the investigation of _____.
A. Cancer B. PUD C. Leprosy D. Tuberculosis

Rahmod,
(S.S. Rahmod)



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QII Long Answers (Answer any 1 out of 2)

10

1. Define and classify the congestive heart failure and explain in detail types & pathophysiology of CHF.
2. Explain in details pathogenesis of cell injury.

QIII Short Answers (Answer any 2 out of 3)

10

1. Discuss the aetiopathogenesis of Asthma.
2. Explain in short about Thalassemia.
3. Explain about peptic ulcer.



First Sessional Theory Examination 2019-2020

(EVEN SEM)

Subject: Pharmaceutical Organic Chemistry I (BP202T) **Day & Date:** Tuesday 03/03/2020
Class: First Year B. Pharm. **Semester:** II
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

Q. I. Multiple Choice Questions (MCQs)

10

1. Ethanol and dimethyl ether are..... of each other.
a) functional isomers b) chain isomers c) tautomers d) stereoisomers
2. The carbon atom involved in double bond of alkene is
a) SP hybridized b) SP² hybridized c) SP³ hybridized d) unhybridized
3. When two groups or atoms are lost from adjacent carbon atoms to form carbon-carbon double bond, the reaction is called as.....
a) 1,1 –elimination b) 1,2- elimination c) substitution d) addition
4. In elimination reaction of alkyl halides, the major product is that alkene in which double bond is more highly substituted, is the
a) Markovnikov's rule b) Hoffman rule
c) Saytzeff rule d) Antimarkovnikov's rule
5. The rate of reaction in E2 mechanism depends upon concentration of
a) substrate only b) base only
c) both substrate and base d) none of these
6. Primary Hydrogen isotope effect is observed in
a) E₁ reaction b) E₂ reaction c) SN₁ reaction d) SN₂ reaction
7. Which compound reacts most readily by SN2 mechanism?
a) methyl chloride b) isopropyl chloride c) ethyl chloride d) tert-butyl chloride
8. In addition of asymmetric reagent to asymmetric alkene, the positive part of reagent gets attached to that doubly bonded carbon which carries more number of hydrogen atoms is.....
a) Markovnikov's rule b) Hoffman rule
c) Saytzeff rule d) Antimarkovnikov's rule
9. The IUPAC name of the compound Cl-CH₂-CH₂-CH₂-OH is.....
a) 1-chloropropanal b) 3-chloropropanol
c) 3- chloropropane d) 1-chloropropanone
10. Halogenation of alkanes takes place bymechanism
a) carbanion b) free radical c) carbocation d) none of these

Q. II. Solve the following (any 1)

10

1. Give kinetics, mechanism, reactivity and stereochemistry of SN₁ and SN₂ reactions with example.
2. What is β – elimination? Explain the mechanism and orientation of E1 reaction. Compare between E1 and E2 reaction.

Q. III. Solve any TWO questions from the following.

10

1. Explain the different types of structural isomerism with examples.
2. Explain SP³ hybridization in alkanes. Give the uses of alkanes
3. Draw the structures for following compounds.
i) 5-ethyl-2-methyldecane ii) 2-chlorobutanol iii) 3-hydroxypentanoic acid
iv) n-methylbutanamine v) 2-bromo-3-chloropentane



First Sessional Theory Examination 2020-2021

(EVEN SEM)

Subject: Pharmaceutical Organic Chemistry I (BP202T)

Day & Date: Friday 16/07/2021

Class: First Year B. Pharm.

Semester: II

Time: 10:30 am – 12:00 pm

Max. Marks: 30

*Instructions: 1. All questions are compulsory
2. Right hand side number indicates full marks*

Q. I. Multiple Choice Questions (MCQs)

10

- The organic compound in which only carbon atoms are connected to each other to form ring structure is called as..... compound.
a) Straight chain b) open chain c) carbocyclic d) heterocyclic
- The IUPAC name of isopropyl bromide is.....
a) 1- bromoethane b) 2-bromoethane c) 1-bromopropane d) 2-bromopropane
- Which of the following is the saturated compound?
a) 1-butene b) propene c) 2- butene d) n-butane
- In elimination reaction of alkyl halides, the major product is that alkene in which double bond is more highly substituted, is the
a) Markovnikov's rule b) Hoffman rule c) Saytzeff rule d) Antimarkovnikov's rule
- Lucas test is used to distinguish different types of
a) Alcohols b) aldehydes c) ketones d) amines
- When chiral compound undergoes S_N2 reaction, the product is obtained with
a) Inversion of configuration b) Retention of configuration
c) Racemization d) plane of symmetry
- Which compound reacts most readily by S_N1 mechanism?
a) Methyl chloride b) isopropyl chloride c) ethyl chloride d) tert-butyl chloride
- Which of the following is a correct rate equation for S_N2 reaction?
a) Rate = k [substrate] b) Rate = k [substrate] [nucleophile]
c) Rate = k [nucleophile] d) Rate = k [product]
- Reduction of aldehyde gives.....
a) Primary alcohol b) secondary alcohol c) tertiary alcohol d) carboxylic acid
- The angle between SP^3 hybrid orbitals is
a) 109° b) 120° c) 180° d) 60°

Q. II. Solve the following (any ONE)

10

- What are elimination reactions? Explain the Kinetics, mechanism, orientation and stereochemistry of $E1$ reactions. Compare between $E1$ and $E2$ reaction.
- Give kinetics, mechanism, and stereochemistry of S_N1 and S_N2 reactions with example.

Q. III. Solve any TWO questions from the following.

10

- Explain the different types of structural isomerism with examples.
- Explain the mechanism of halogenation of alkanes.
- Draw the structures for following compounds.
i) 4-bromobutanol ii) hex-4-en-2-one iii) 3-chloropentanoic acid
iv) N,N-dimethylbutanamine v) 4-methylhexanol

First Sessional Theory Examination 2021-2022 (Even Sem)

Subject: Pharmaceutical Organic Chemistry-I (BP202-T)

Semester: II

Day & Date: Friday, 24/06/2022

Class: F.Y. B. Pharm

Time: 02.00 pm- 03.30 pm

Max. Marks: 30

- Instructions:* 1. All questions are compulsory
2. Draw a well labelled diagram wherever necessary
3. Right hand side number indicates full marks

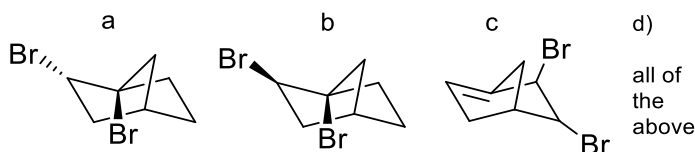
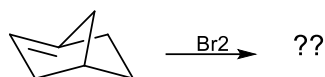
QI Multiple Choice Questions (MCQs)

10

Select the most appropriate answer

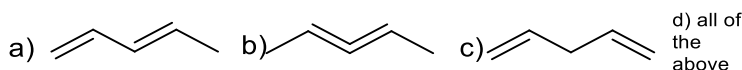
1. The carbon atoms involved in alkene is
a) SP^3 hybridized b) SP^2 hybridized c) SP hybridized d) Unhybridized

2.



3. Halogenation of alkanes follows the Mechanism
a) Carbonian b) Carbocation c) Radical d) None of the above

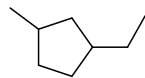
4. The most stable conjugated diene is



5. Walden inversion is observed in

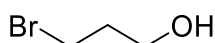
- a) SN_1 b) SN_2 c) E_1 d) E_2

6. IUPAC Nomenclature of following compound



- a) 1-ethyl-3-methylcyclopentane b) 3-ethyl-1-methylcyclopentane c) Both
d) None of the above

7. Correct IUPAC Nomenclature of



- a) 3-bromopropan-1-ol b) 1-bromopropan-3-ol c) 3-bromo, 1-hydroxy, propane
d) 1-bromo, 3-hydroxy, propane

8. The correct structure as per the following IUPAC name



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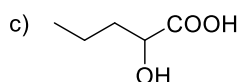
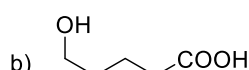
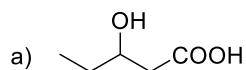
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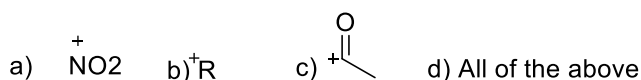
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“3-hydroxypentanoic acid”



d) None of the above

9. Following is/are the example of electrophile/s



10. The elimination reaction of alkyl halides, the major product is that alkene in which double bond is more highly substituted is the

- a) Markovnikov's rule b) Anti-markovnikov's rule c) Saytzeff's rule
d) Hoffmann rule

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

10

1. Discuss in detail about electrophilic addition reactions in alkene? Add a note on Markovnikov's and Anti-markovnikov's rule?
2. Define SN2 reaction? Explain mechanism, reaction kinetics, stereochemistry. Add a note on difference between SN1 and SN2 reaction.

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

10

1. What is elimination reaction? Discuss mechanism and reactivity of E2 elimination reaction?
2. Discuss different types of isomerism present in organic compounds?
3. i) Diel Alder Reaction
ii) sp^3 and sp^2 hybridization in alkane and alkene



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Dr. Mohd Usman

Dr. Kumar Pratyush

Dr. Bhushan Dravyakar

Prepared by

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First Sessional Theory Examination 2021-2022 (Even Sem)

Subject: Pharmaceutical Organic Chemistry-I (BP202-T)

Semester: II

Day & Date: Friday, 24/06/2022

Class: F.Y. B. Pharm

Time: 02.00 pm- 03.30 pm

Max. Marks: 30

- Instructions:* 1. All questions are compulsory
2. Draw a well labelled diagram wherever necessary
3. Right hand side number indicates full marks

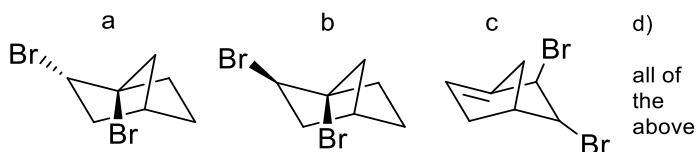
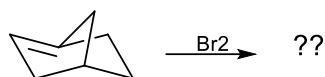
QI Multiple Choice Questions (MCQs)

10

Select the most appropriate answer

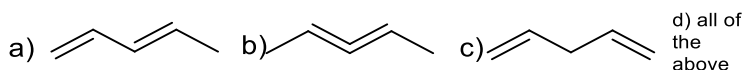
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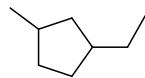
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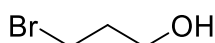
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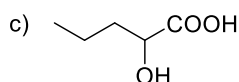
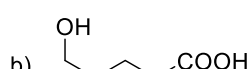
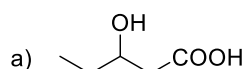
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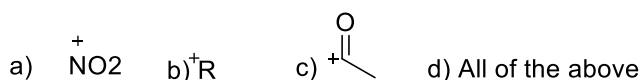
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“3-hydroxypentanoic acid”



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

10

1. Discuss in detail about electrophilic addition reactions in alkene? Add a note on Markovnikov's and Anti-markovnikov's rule?
2. Define SN2 reaction? Explain mechanism, reaction kinetics, stereochemistry. Add a note on difference between SN1 and SN2 reaction.

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

10

1. What is elimination reaction? Discuss mechanism and reactivity of E2 elimination reaction?
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1st Sessional Theory Examination (Odd SEM) 2022-2023

Subject : Pharmaceutical Organic Chemistry-I (BP202T)	Day & Date :	Saturday 08/07/2023
Class : First Year B. Pharmacy	Semester : II	Write Your Seat No. Here
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 4. Do not write/tick on the question paper		
Q. I: Short Answer Questions		10 M
1. Define with examples a) nucleophile b) electrophile. (CO1, LL1) 2. Write down the structures of (CO1, LL1) a) 2-methyl-3-chloro-1-pentene b) 5-fluoro-3-hydroxy-pentanoic acid 3. Enlist the reactions of alkenes and alkane? (CO2, LL2) 4. Define with example. Electrophilic addition reactions in alkene? (CO2, LL2) 5. Write about the Markownikoff's rule and Anti Markownikoff's rule? (CO2, LL2)		
Q. II: Long Answers Questions (Answer any 1 out of 2)		10
1. Define elimination reaction? Write short note on E1 and E2 reaction? (CO1, LL1) 2. What do you mean by nucleophilic substitution reaction? Write in detail about kinetics, order of reactivity of alkyl halides and stereochemistry of SN1 and SN2 reactions? (CO2, LL2)		
Q. III: Short Answers Questions (Answer any 2 out of 3)		10 M
1. Write a short note on isomerism in organic compounds. (CO1, LL1) 2. What do you mean by peroxide effect? Write in detail about the free radical addition reactions in alkene? (CO2, LL2) 3. Explain a) Rules for IUPAC Nomenclature for organic compounds? (CO1, LL1) b) Diel-Alder reaction? CO2, LL2)		

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Second Sessional Theory Examination 2021-2022

(EVEN SEM)

Subject & Subject Code: Computer Application in Pharmacy (BP205T)

Day & Date: Friday, 12/08/2022

Class: F.Y and DSY B. Pharm

Semester: II/ IV

Time: 10.30 am to 11.30 am

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. Long Answers (Answer any 1 out of 2)

10 M

1. Explain the Drug Development process and Impact of Bioinformatics in vaccine discovery
2. Write a note on programming language. Explain types of programming languages.

QII. Short Answers (Answer any 4 out of 6)

20 M

1. Define biological databases, Classify it and note on database use to show proteomic, genomic sequences
2. Write a short note on CSS. Explain in brief types of CSS.
3. What is Bioinformatics? Describe detailed Objective and Area of bioinformatics used.
4. Write difference between HTML and XML
5. Write a Note on Chromatographic Data System (CDS)
6. What is Web Server, explain with diagram



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Second Sessional Theory Examination 2019-2020

Subject and subject code: *Pathophysiology* **Day & Date: Friday 17/05/2020**

Class: F.Y. B. Pharma

Semester: II

Time: 10:00 am to 11:00 am

Max. Marks: 30

1. Parkinson Disease mainly caused because of deficiency of _____ level
 - a. Dopamine
 - b. Serotonin
 - c. Adrenaline
 - d. None of above
2. FESSAS BODIES is characteristics of which type of haematological diseases
 - a. Leukaemia
 - b. Thalassemia
 - c. Anemia
 - d. Haemophilia
3. Inherited condition that impairs ability of enzyme to process the excretion of bile is known as
 - a. Redd Syndrome
 - b. Steven Johnson syndrome
 - c. Gilbert syndrome
 - d. None of above
4. Bloody diarrhoea is clinical presentation of which disease condition
 - a. Hepatitis
 - b. Jaundice
 - c. Crohn disease
 - d. Ulcerative colitis
5. Cancer is caused by
 - a. Uncontrolled mitosis
 - b. Uncontrolled meiosis
 - c. Rupturing of cell
 - d. Loss of Immunity of cells
6. _____ is an autoimmune disorder.
Gout
 - a. Tuberculosis
 - b. Rheumatoid arthritis
 - c. Osteoporosis
 - d. All of above
7. _____ is a neurodegenerative disorder, primarily affecting cholinergic neurons in brain
 - a. Parkinson's disease
 - b. Psychosis

- c. Epilepsy
 - d. Rheumatoid Arthritis
8. A swelling of the skin and underlying tissues giving a waxy consistency is clinical presentation of
- a. Myxoedema
 - b. Cretinism
 - c. Leukaemia
 - d. None of above
9. A severe hypothyroidism present at birth is known as
- a. Cretinism
 - b. Grey Baby Syndrome
 - c. Beriberi
 - d. None of above
10. Aggregation of tissue or mass of cell inside body is known as
- a. Neoplasm
 - b. Tumor
 - c. Scar
 - d. None of above
11. Thyrotoxicosis is also known as
- a. Hypothyroidism
 - b. Hyperthyroidism
12. The repetitive seizure that leads to jerking and muscle spasms called as _____
- a. Seizure
 - b. Epilepsy
 - c. Convulsion
 - d. none of these
13. The chronic disease condition associated with small and large intestine is
- a. Diarrhoea
 - b. Hepatitis
 - c. IBD
 - d. None of above
14. The confirmation test for diagnosis of T. B. infection is
- a. CBC test
 - b. ELISA test
 - c. Mantoux test
 - d. CT scan test
15. Symptoms of cystitis mainly includes
- a. Burning with urination
 - b. Vomiting
 - c. Flank pain
 - d. Pelvic pressure
16. Incubation period for typhoid microorganism is _____
- a. 5 to 7 days
 - b. 1 to 3 months
 - c. 2 to 6 Years
 - d. 10 to 14 days
17. An agent that cause viral meningitis
- a. Pneumococcus
 - b. Aspergillus



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Q. II. Attempt any two of the following (Long answer) (2×10=20) Marks

1. Define cancer and write classification and pathogenesis of cancer.
2. Define, sign and symptoms of inflammations. Describe the mechanism of inflammation along with chemical mediators of inflammation.
3. Explain the pathophysiology of CHF and Hypertension

Q. III. Attempt any seven of the following (7 ×5=35) Marks

1. Explain the pathogenesis of asthma
2. Give the details about enteric fever
3. Add a short note on acute renal failure
4. Explain in brief about Anemia
5. Enlist the causes of cell injury. Explain mechanisms of cell injury.
6. Give the details about hepatitis
7. Write a short note on epilepsy.
8. Explain in brief about tuberculosis
9. What is diabetes mellitus? Give its type and clinical manifestations of diabetes mellitus.



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**Second Sessional Theory Examination 2021-2022
(EVEN SEM)**

Subject & Subject Code: Biochemistry (BP203T)

Day & Date: Wednesday 10-08-2022

Class: F.Y. B. Pharmacy

Semester: II

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. Enzymes are _____ in nature.
a) Carbohydrate b) Lipid c) Protein d) Acidic
2. Each enzymes have its ----- structure.
a) Primary b) Secondary c) Tertiary d) Quaternary
3. The sugar found in RNA is _____.
a) Ribose b) Deoxyribose c) Pentose d) Eryhrose
4. _____ is **NOT** the factor affecting the enzyme activity.
a) Concentration b) pH c) Temperature d) Molarity
5. RNA is converted to protein by _____.
a) Transcription b) Translation c) Lipase d) Kinase
6. Which pyrimidine base contains an amino group at fourth position?
a) Cytosine b) Thymine c) Uracil d) Adenine
7. During DNA replication hydrogen bond is braked by
a) DNA ligase b) DNA gyrase c) DNA helicase d) DNA polymerase
8. Which of the following amino acid is the precursor for biosynthesis of serotonin?
a) Tryptophan b) Acetoacetate c) Phenyl alanine d) Glycine
9. Enzymes lose the catalytic activity at temperature above 70°C due to _____.
a) Deregulation b) Disturbance c) Distortion d) Denaturation
10. The Irreversible inhibitor binds _____ with enzyme.
a) Covalently b) non-covalently c) By hydrogen bonding d) By ionically

QII Long Answers (Answer any 1 out of 2)

10

1. Describe factors affecting enzyme activity and give the diagnostic and therapeutic application of enzyme.
2. Define and classify enzyme as per IUB system and explain enzyme inhibitors in details.

QIII Short Answers (Answer any 2 out of 3)

10

1. Write a note on DNA replication.
2. Explain in detail pathway of urea cycle.
3. Discuss in brief transamination and deamination reaction.



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Second Sessional Theory Examination 2018-2019

Subject : Biochemistry	Day & Date : 25/04/2019
Class : F. Y. B. Pharmacy	Semester : II
Time : 10:30 am to 12:00 noon	Max. Marks : 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]

- a Enzyme activity can be measured using _____
a. IU
b. Katal
c. Both a & b
d. None of the above
- b Conversion of Glutamate to α -ketoglutarate is an example of _____.
a. Transamination
b. Oxidative deamination
c. Amination
d. None of the above
- c In Purine biosynthesis, _____ is used as precursor
a. pyruvate
b. ribose-5-phosphate
c. glucose-6-phosphate
d. CO_2 + Glutamine
- d In starvation condition ketone bodies used as important source of energy to peripheral tissues except _____.
a. Cardiac muscle
b. erythrocyte
c. skeletal muscle
d. renal cortex
- a Aldolase is _____ type of enzyme.
a. lyase
b. ligase
c. hydrolase
d. oxidoreductase
- f _____ are act as fuel reserve of body and also constitute in membrane structure.
a. Carbohydrates
b. Proteins
c. Lipids
d. All of the above
- e Cytosomal CPS-II is used in biosynthesis of _____.
a. Pyrimidine
b. Urea
c. Ornithine
h. Carmoyl aspartate
- h _____ is an example of derived lipids
a. Steroid hormone
b. Vitamins
c. Diacylglycerol
d. All of the above
- i _____ plot is also called as double reciprocal plot
e. Brig's & Handlane
f. Michaelis-Menten
g. Hans Kreb's
h. Lineweaver-Burk's
- j Amino acids are metabolised into _____.
a. pyruvate
b. α -ketoglutarate
c. oxaloacetate
d. all of the above

Q.2. Answer the following short questions (*any two*) [10]

- a Discuss the steps involved in pyrimidine biosynthesis. Add a note on hyperuricemia
b Write short note on *De Novo* synthesis of fatty acid
c Explain the various steps involved in urea cycle and disorders associated with it.

Q.3. Answer in detail of following (*any one*) [10]

- a Explain the term *enzyme activity*. Describe in detail various factors affecting it. Comment on various types of enzyme inhibition with suitable examples.
b Discuss the steps involved in β -oxidation of palmitic acid. Add a note on biological significance and disease associated with cholesterol.



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Online Second Sessional Theory Examination 2020-2021
(EVEN SEM)

Subject & Subject Code: Biochemistry (BP203T)

Day & Date: Monday 30-08-2021

Class: F.Y. B. Pharmacy

Semester: II

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

- The class of enzymes involved in synthetic reactions are _____.
a) Oxidoreductase b) Ligase c) Mutase d) Lactase
- The non-protein part of holoenzyme _____.
a) Apenzyme b) Ligand c) Coenzyme d) Asparagine
- Enzymes lose the catalytic activity at temperature above 70 °C due to _____.
a) Dereglulation b) Disturbance c) Distortion d) Denaturation
- The place at which substrate binds with the enzyme _____.
a) Allosteric site b) Active site c) Specific site d) None of the above
- In recent years, a non-protein compound has been identified to bring about catalysis in biological system. The name of the compound is
a) DNA b) RNA c) Lipids d) Carbohydrates
- The Reversible inhibitor binds _____ with enzyme and the enzyme
a) Covalently b) Non-covalently c) By hydrogen bonding d) By ionically
- Name the enzyme associated with hyperuricemia
a) PRPP synthetase b) HGPRT c) Glucose-6-phosphatase d) All of them
- The 'parent' nucleotide synthesized in the biosynthesis of purines is
a) Insulin monophosphate b) Insulin diphosphate
c) Inosine monophosphate d) Inosine diphosphate
- Xanthine oxidase converts _____ to _____.
a) Pyrimidine to purine b) Purine to pyrimidine
c) Alloxanthine to allopurinol d) allopurinol to Alloxanthine.
- The amino acid that contributes to the synthesis of more than half of the pyrimidine ring

a) Aspartate b) Asparagine c) Aspirin d) Ascorbic acid

QII Long Answers (Answer any 1 out of 2)

10

- Define and Classify enzyme with suitable example. Explain reversible and irreversible enzyme inhibitor's in details.
- Write a note on a) Coenzyme b) Steroid Hormone



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QIII Short Answers (Answer any 2 out of 3)

10

1. Write a short note on Hyperuricemia and Gout Disease.
2. Explain in detail organization of mammalian genome.
3. Differentiate Between DNA & RNA.



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

Subject :	Computer Application in Pharmacy (BP 205T)	Day & Date :	Friday, 11/08/2023
Class :	First Year B. Pharmacy	Semester :	II
Time :	10:30 am – 11:30 am	Max. Marks :	30

Write Your Roll No. Here

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

QI	Long Answers (Answer any 1)	10 M
1.	Explain how will you convert binary number system into decimal number system and vice versa with examples (CO1, LL2)	
2.	Describe briefly various types of programming languages and their advantages and disadvantages (CO2, LL2)	

QII	Short Answers Question (Answer any 4)	20 M
1.	Describe in detail on data flow diagrams (CO1, LL2)	
2.	Explain the Process life cycle with example of software testing? (CO1, LL2)	

3.	Match the following and write the correct answers? (CO1, LL3)		
	Decimal	Binary	Hexadecimal
	14	1100	D
	12	1011	E
	13	1111	F
	15	1110	C
	11	1101	B

4.	Illustrate the term databases (CO2, LL2)	
5.	Define Web server and Classify it with explanation? (CO2, LL2)	
6.	Explain the difference between HTML and XML? (CO2, LL2)	



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Second Sessional Practical Examination 2020-2021

Subject: Comm. Skills

Date: Tuesday, April 20, 2021

Class: FY/ DSY

Semester: Second

Time: 2 Hrs

Max. Marks: 20

- Instructions: 1. All questions are compulsory
2. Draw a well labeled diagram wherever necessary
3. Right hand side number indicates full marks*

QI Writing Activity (Writing Proficiency)

10

1. Prepare a detailed speech on any of the topic of national/social importance.
(Not more than TWO pages)

QII Speaking Activity (Communicative Proficiency)

10

1. Deliver the speech prepared by you.
(Not more than THREE minutes)

Batch	Date	Activity
A1	20/4/2021	Delivery of the speech
A2	20/4/2021	Delivery of the speech
A3	20/4/2021	Delivery of the speech
B1	20/4/2021	Delivery of the speech
B2	20/4/2021	Delivery of the speech
DSP	20/4/2021	Delivery of the speech

-----END-----



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Second Sessional Theory Examination 2020-2021
(EVEN SEM)

Subject & Subject Code: Computer Application in Pharmacy

Day & Date: Wednesday, 01/09/2021

Class: F.Y and DSY B. Pharm

Semester: II/ IV

Time: 10.30 am to 12.00 pm

Max. Marks: 30 Marks

*Instructions: 1. All questions are compulsory
2. Draw a well labeled diagram wherever necessary
3. Right hand side number indicates full marks*

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

10 M

1. Define Bioinformatics, Write the objective and Impact of Bioinformatics in Vaccine discovery
2. Enlist the role of Computer as data analysis in Preclinical development and explain Laboratory Information Management system in details

QII Short Answers (Answer any 4 out of 6)

20 M

1. Define CSS. Write down the Basic CSS Syntax and discuss its different types.
2. Differentiate between HTML and XML with Example
3. Write a brief note on Programming languages.
4. Explain the Drug Development process in details
5. Define database, comment on - Pharmacy Drug database
6. Write a Note on Chromatographic Data System(CDS)



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Second Sessional Theory Examination 2018-2019

Subject: Computer Applications in Pharmacy

Day & Date: Friday, April 26, 2018

Class: F.Y.B.Pharmacy & Direct Second Year Admitted

Semester: II

Time: (2.00 pm – 3.30 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

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

10

1. What is bioinformatics? Describe detailed applications of bioinformatics
2. List and explain the symbols used in DFD Explain the Rules to create DFD

Q II Short Answers (Answer any 4 out of 6)

20

1. Describe the Structure of electronic health Record over traditional techniques and elements of Electronic Health Record
2. Define eprescription? Write about automated dispensing cabinet
3. How the patient monitoring system works and write a note on intelligent patient monitoring system
4. Write a Note on chromatographic data system
5. Differentiate between XML and HTML with example.
6. Describe Server Client and Client Server Technology with an example.

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Second Sessional Theory Examination 2018-2019

**Subject: Environmental
Sciences**

Day & Date: Monday, 29 March. 2019

Class: FY/DSA

Semester: Second

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 Long Answers (Answer any 1)

10*1

- (1) What are the types of Pollution? Explain their causes, effects and solutions.
- (2) Explain the types of Ecosystem in detail.

QII Short Answers (Answer any 4)

4*5

- (1) What are the Sewage Water Effluents? How to dispose Sewage Water?
- (2) What is Forest Ecosystem? Explain it in detail.
- (3) What are the effects of the Water Pollutants?
- (4) State the importance of Ecosystem.
- (5) State the causes and suggest ways to control Soil Pollution?
- (6) Explain Aquatic Ecosystem in detail.



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Second Sessional Theory Examination 2020-2021

**Subject: Environmental Sciences
(BP206T)**

Class: FY & DSY B Pharm

Time: 2.30PM to 04.00PM

**Day & Date: Thursday, Sept.
02, 2021**

Semester: II

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 Long Answers (Answer any ONE)

1*10

- (1) Explain Forest and Desert ecosystem in detail with emphasis on its role in ecological balance. (CO2)
- (2) Write an exhaustive note on characteristic features and function of Aquatic ecosystem. (CO3)

QII Short Answers (Answer any FOUR)

4*5

- (1) Explain the significance of Food Web. (CO2)
- (2) What is Ecosystem? Explain its importance. (CO2)
- (3) What is Pollution? Discuss in detail different types of pollutants? (CO3)
- (4) State the main causes of Water pollution? How can Water pollution be controlled? (CO3)
- (5) State your role in the prevention of Soil and Air pollution. (CO3)
- (6) What is Greenhouse effect? Suggest your ways to overcome it. (CO3)

-----END-----



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Second Sessional Theory Examination 2020-2021

**Subject: Environmental Sciences
(BP206T)**

Class: DSY B Pharm

Time: 10:30 AM to 12:00 Noon

Day & Date: September 2, 2021

Thursday

Semester: II

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 Long Answers (Answer any ONE)

1*10

- (1) Explain Forest and Desert ecosystem in detail with emphasis on its role in ecological balance. (CO2)
- (2) Write an exhaustive note on characteristic features and function of Aquatic ecosystem. (CO3)

QII Short Answers (Answer any FOUR)

4*5

- (1) Explain the significance of Food Web. (CO2)
- (2) What is Ecosystem? Explain its importance. (CO2)
- (3) What is Pollution? Discuss in detail different types of pollutants? (CO3)
- (4) State the main causes of Water pollution? How can Water pollution be controlled? (CO3)
- (5) State your role in the prevention of Soil and Air pollution. (CO3)
- (6) What is Greenhouse effect? Suggest your ways to overcome it. (CO3)

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Second Sessional Theory Examination 2021-2022

Subject: Environmental Sciences

Day & Date: Saturday, 13 Aug 2022

Class: FY/ DSA

Semester: II and IV (DSY)

Time: 10.30 to 12.00

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	Long Answer Question (Any One)	Mrks
1	What is Ecosystem? Explain Forest Ecosystem along with your ways to nurture it.	10
2	Explain different Aquatic Ecosystems and their role to sustain life.	10
QII Short Answer Questions.		
Section A: (Any One)		
1	Explain characteristic features of Ecosystem.	5
2	Define Grassland Ecosystem in detail?	5
Section B: (Any Three)		
1	What do you understand by Environmental Pollution? Explain it in detail.	5
2	What are the causes of Water Pollution? How to overcome it?	5
3	What is Air Pollution? List the causes and suggest ways to overcome it.	5
4	Explain the causes and impact of Soil Pollution? Suggest your ways to overcome it.	5

-----END-----



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

Subject	: Environmental Sciences (BP 206T)	Day & Date	: Saturday, 12/08/2023	
Class	: First Year B. Pharmacy	Semester	: II	Write Your Roll No.
Time	: 10:30 am – 12:00 pm	Max. Marks	: 30	Here <input type="text"/>

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		
QI	Long Answers (Answer any 1)	10 M	
1.	Explain the types of Pollution? Explain their causes, effects and solutions. (CO4, LL2)		
2.	Describe the Forest and Desert ecosystem in detail with emphasis on its role in ecological balance (CO3, LL2)		

QII	Short Answers Question (Answer any 4)	20 M
1.	Explain the Sewage Water Effluents? How to dispose Sewage Water? (CO4, LL2)	
2.	Illustrate the causes and suggest ways to control Soil Pollution? (CO4, LL2)	
3.	Explain in detailed note on Forest resources. (CO4, LL2)	
4.	Explain Aquatic Ecosystem in detail. (CO3, LL2)	
5.	Explain the Greenhouse effect? Suggest your ways to overcome it. (CO3, LL2)	
6.	Illustrate characteristic features of desert ecosystem. (CO3, LL2)	

Second Sessional Theory Examination 2018-2019

Subject: Human Anatomy and Physiology II

Day & Date: Monday, 22.4.19

Class: F. Y.B. Pharm

Semester: II

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 primary phase in the regulation of gastric secretion and motility is Called:
a) The swallowing phase b) The gastric phase
c) The cephalic phase d) The intestinal phase
2. Intrinsic factor is produced by which cells within the stomach?
a) Mucous cells b) Chief cells c) Enteroendocrine cells d) Parietal cells
3. Approximately what volume of filtrate enters the glomerular capsule each day?
a) 80 L b) 130 L c) 180 L d) 230L
4. Which of the following substances does not normally pass through the Glomerular capsule?
a) albumin b) Glucose c) Urea d) Sodium ions
5. Anuria is best defined as:
a) Blood in the urine b) Failure to release urine
c) Excessive urine production d) Excessive urine production at night
6. Creatinine is a metabolic waste product excreted in urine and derived from:
a) Liver b) Muscle c) Bone d) Skin
7. This hormone acts on the intestines and causes increased calcium absorption
a) Calcitonin b) Calcitriol c) Thyroxine d) Pancreatic polypeptide
8. A lack of or decrease in insulin hormone receptors on cells can result in
a) Diabetes insipidus b) Type 1 diabetes mellitus
c) Type 2 diabetes mellitus d) Juvenile diabetes
9. A typical neural pathway is:
a) effector-sensory nerve-PNS-motor nerve-receptor
b) receptor-sensory nerve-CNS-motor nerve-effector
c) effector-motor nerve-PNS-sensory nerve-receptor
d) receptor-motor nerve-CNS-sensory nerve-effector
10. In which of the following pairs, the hormone of endocrine glands and its primary action is mismatched.
a) Calcitonin - Lower blood calcium levels
b) Parathyroid - Raises blood calcium levels
c) Somatostatin - Inhibits release of glucagon
d) Melatonin - Regulates the rate of cellular metabolism

QII Long Answers (Answer any 1 out of 2)

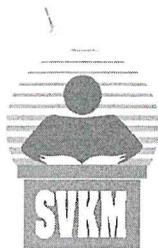
10

1. Explain in details physiology of urine formation add a note on internal structure of kidney with a neat labelled diagram.
2. Explain in details physiology of respiration.

QIII Short Answers (Answer any 2 out of 3)

10

1. Write a note on menstrual cycle
2. Write a note on anatomy of lungs.
3. Draw a neat labelled diagram of neuron add a note on its anatomy.



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Second Sessional Theory Examination 2020-2021 (Even SEM)

Subject & Subject Code: Human Anatomy & Physiology II (BP201T)

Day & Date: Friday, 27.08.2021

Class: First Year B. Pharm

Semester: II

Time: 10.30 AM to 12.30PM

Max. Marks: 30

Instructions: 1. All questions are compulsory.

2. Draw a well labelled diagram wherever necessary.

3. Right hand side number indicates full marks.

Q.I Multiple-choice questions (MCQs)

10

- The endocrine system is composed body's endocrine glands except-
a. Pituitary b. Thyroid c. Sebaceous d. Parathyroid
- Parathormone is secreted by --- cells
a. Kupffer b. Chief c. Leydig d. Beta
- Following ---- disease is associated with hyperthyroidism
a. Grave b. Myxedema c. Dwarfism d. Hashimoto
- The following gland and hormone is responsible for feeling of sleepiness respectively
a. Pituitary & growth b. Thyroid & thyroid hormone
c. Pineal & melatonin d. Parathyroid & calcium
- The functional unit of kidney is
a. Neuron b. Nephron c. Alveoli d. Testes
- The following secretions from seminal vesicles is responsible for sperm motility & viability
a. Fructose b. Clotting proteins c. Prostaglandins d. ATP
- The volume of semen in a typical ejaculation is
a. 2.5-5 ml b. 5-10 ml c. 1-2 ml d. 7.5 - 15 ml
- contains the remnants of a mature follicle after ovulation
a. Mature (graafian) follicle b. Ovarian medulla
c. Ovarian follicles d. Corpus luteum
- During reproductive cycles when implantation does not occur, the -
--- is the source of menstrual flow



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- a. Uterus
- c. Ovary

- b. Fallopian tubes
- d. Vagina

10. The ---- enzyme catalyzes transcription of DNA

- a. DNA Polymerase
- c. Both a & b
- b. RNA polymerase
- d. None of the above

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

10

1. Draw a neat well labelled diagram of kidney. Explain the process of urine formation.
2. Enlist hormones secreted by pituitary gland. Explain in detail about structure and functions of pituitary gland.

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

10

1. Draw a neat well labelled diagram of male reproductive system. Explain the structure and functions of testes.
2. Draw a neat well labelled diagram of female reproductive system. Explain the structure and functions of ovary.
3. Explain in detail about the process of protein synthesis.

*** END***

Sherika
Mr. Sherika Abdulla.



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Second Sessional Theory Examination 2021-2022 (Even SEM)

Subject: Human Anatomy & Physiology-II (BP 201T)

Day & Date: Saturday 06/08/2022

Class: F.Y. B. Pharm

Semester: IInd

Time: 10:30 PM to 12.00 Noon

Max. Marks: 30

Instructions: 1. All questions are compulsory

2. Draw a well labelled diagram wherever necessary

3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

10

- The following is an example of steroid hormone **EXCEPT**
A. Epinephrine B. Oestrogen C. Testosterone D. Nitric oxide
- Thyrotrophs secrete the following hormone
A. hGH B. FSH C. LH D. TSH
- is also called as functional portion of kidney
A. Renal medulla B. Renal cortex C. Parenchyma D. Nephron
- One kidney has about ---- millions of nephrons
A. 1 B. 2 C. 3 D. 4
- Proximal convoluted tubule consists of simple ---- epithelial cells
A. Squamous B. Cuboidal C. Columnar D. Glandular
- The ---- polymerase enzyme catalyses transcription of DNA
A. DNA B. RNA C. Both A & B D. None of the above
- An allele that dominates or masks the presence of another allele and is fully expressed is said to be a ----
A. Recessive B. Homozygous C. Heterozygous D. Dominant
- The entire period of spermatogenesis, from spermatogonia to spermatozoa, takes about --- days.
A. 54 B. 84 C. 74 D. 94
- are homologous to the testes
A. Ovaries B. Oviducts C. Uterus D. Vagina
- Oogonia are ---- stem cells
A. Haploid B. Diploid C. Both A & B D. None of the above

QII Long Answers (Answer any 1 out of 2)

10

- Draw a neat and well labelled diagram of nephron. Explain the detailed physiology of urine formation.
- Enlist the hormones secreted by pituitary gland. Explain the functions of different anterior pituitary hormones.

QIII Short Answers (Answer any 2 out of 3)

10

- Explain in detail about various phases of menstrual cycle.
- Explain about spermatogenesis.
- Draw a neat and well labelled diagram of ovary and testes.

SVKM's Institute of Pharmacy, Dhule
Second Sessional Examination 2018-19

Subject: Pathophysiology BP204T

Class: B. Pharm (Sem II)

Total Marks: 30

Time: 10.30am to 12.00pm

Roll. No.:

Date: 26/04 /2019

Q.1 Multiple Choice Questions: (10 x 1)

(10)

1. Etiopathogenesis of cretinism does not includes _____
A. Thyroid agenesis
B. Genetic defect in thyroid hormone synthesis
C. Foetal exposure to iodides and antithyroid drugs
✓ D. Immune destruction of thyroid cell
2. Most frequently and severely involved joints in rheumatoid arthritis are
A. Knees B. Elbows ✓ C. Interphalangeal D. Sacroiliac
- 3 The following hepatotropic virus is a DNA virus:
A. HAV ✓ B. HBV C. HCV D. HEV
- 4 An example of tumor suppressor gene is _____
✓ A. p53 B. C-myc C. ras D. bcr
5. Hepar lobatum is seen in
A. Primary syphilis B. Secondary syphilis ✓ C. Tertiary syphilis D. Congenital syphilis
6. Diagnosis of AIDS for ELISA positive patient can be confirmed by
A. Northern blotting ✓ B. Western blotting
C. Southern blotting D. None of the above
7. Amyloidosis is seen in which type of diabetes:
A. Type I DM ✓ B. Type II DM
C. Gestational diabetes D. MODY
8. The following are correct statements for type 2 diabetes (NIDDM) except:
A. It is more than common than IDDM B. These patients are generally obese
C. There is role of insulin resistance ✓ D. There is presence of 'insulinitis'
9. Following are the causative organism of meningitis except
✓ A. Spirochetes B. E. coli
C. Haemophilus influenza D. Neisseria meningitidis
10. Absorption of iron is enhanced by the following except:
A. Ascorbic acid B. Citric acid ✓ C. Tannates D. Sugars

Q2. Answer any two

1. Explain Thalassemia with respect to etiology, pathogenesis, sign & symptoms
2. Explain etiology, pathogenesis, sign & symptoms of Syphilis.
3. Explain etiology, pathogenesis, sign & symptoms of Rheumatoid arthritis.

Q3. Answer any one :

1. Define cancer, differentiate between benign & malignant tumour, enlist etiologic factor & describe pathophysiology of Cancer.
2. Describe in details about epilepsy.



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Second Sessional Theory Examination 2021-2022 (Even SEM)

Subject : Pathophysiology (BP204T)	Day & Date : Thu, 11/08/2022
Class : First Year B. Pharmacy	Semester : II
Time : 10:30 pm – 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 M

1. ____ refers to decrease production of testosterone.
a) Hypogonadism b) Hypergonadism c) Cretinism d) Impotency
2. Degeneration of dopaminergic receptor causes ____
a) Alzheimer's Disease b) Parkinson's Disease c) Both (a) & (b) d) None of above
3. Epilepsy is a neurological disorder which shows unpredictable occurrence of ____
a) Seizure b) Fever c) Weakness d) Forget Fullness
4. The causative agent for peptic ulcer is ____
a) S. typhi b) H. Pylori c) M. Tuberculosis d) E. Coli
5. ____ is characterized by high levels of uric acid in blood.
a) Gout b) Arthritis c) Osteoporosis d) All of the above
6. ____ genes are responsible for carcinogenesis
a) Gene P-4 b) Oncogenes c) Tumor Suppressor d) None of the above
7. ____ are solid tumors of connective tissues
a) Carcinoma b) Lymphoma c) Sarcoma d) Leukemia
8. The migration of primary tumors to another location through blood is called ____.
a) Invasiveness b) Homeostasis c) Metastasis d) Differentiation
9. Cystitis is the infection of ____
a) Bladder b) Urethra c) Nephron d) Kidney
10. AIDS caused due to ____.
a) HBV b) HAV c) HIV d) All of the above

QII Long Answers Question (Answer any 1 out of 2) 10 M

1. Define cancer and write classification and pathogenesis of cancer.
2. Write a note on etiopathogenesis, risk factor and management of AIDS.

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

1. Enumerate on pathophysiology of Parkinson's disease.
2. Discuss pathogenesis and complications of Peptic Ulcer.
3. What is Rheumatoid Arthritis? Give its pathogenesis, causes and symptoms.

----- **ALL THE BEST!** -----



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Second Sessional Theory Examination (Even SEM) 2022-2023

Subject : Pathophysiology (BP204T)	Day & Date : Thu, 10/08/2023	
Class : First Year B. Pharmacy	Semester : II	Write Your
Time : 10:30am- 12:00 pm	Max. Marks : 30	Seat No. Here

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
--

Q. I: Short Answer Questions	10 M
1. Enlist Causative agent of TB and Typhoid. (CO4, LL1) 2. Define Meningitis and enlist its types. (CO4, LL1) 3. Write about (CO3, CO4, LL1) a) Symptoms of Depression b) Prevention of UTI 4. Define Hyperthyroidism and enlist its causes. (CO3, LL1) 5. Distinguish Between Cronhs disease and ulcerative colitis. (CO3, LL1)	

Q. II: Long Answers Questions (Answer any 1 out of 2)	10 M
1. Define cancer and write classification and pathogenesis of cancer. (CO4, LL1) 2. Write a note on the causative organism, mode of transmission and clinical complications of AIDS. (CO4, LL1)	

Q. III: Short Answers Questions (Answer any 2 out of 3)	10 M
1. Enumerate on pathophysiology of Parkinson's disease (CO3, LL2) 2 Describe the causes and clinical signs of Rheumatoid arthritis (CO3, LL2) 3. Describe the etiopathogenesis of Peptic Ulcers (CO3, LL2)	



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Mapping of Course Outcome with Second Sessional Theory Examination (2022-23)

Course Outcomes	Questions	Marks
CO 204.3: Describe the etiology and pathogenesis of the selected diseases of endocrine, nervous and gastrointestinal system along with diseases of the joints. (Level 1)		
CO 204.4: Summarize the etiology and pathogenesis of the principles of the cancer, infectious diseases and sexually transmitted diseases. (Level 2)		



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Second Sessional Theory Examination 2019-2020

Subject and subject code: Pathophysiology BP204T

Day & Date: Friday 17/05/2020

Class: F.Y. B. Pharma

Semester: II

Time: 10:00 am to 11:00 am

Max. Marks: 30

1. Parkinson Disease mainly caused because of deficiency of _____ level
 - a. Dopamine
 - b. Serotonin
 - c. Adrenaline
 - d. None of above
2. FESSAS BODIES is characteristics of which type of haematological diseases
 - a. Leukaemia
 - b. Thalassemia
 - c. Anemia
 - d. Haemophilia
3. Inherited condition that impairs ability of enzyme to process the excretion of bile is known as
 - a. Redd Syndrome
 - b. Steven Johnson syndrome
 - c. Gilbert syndrome
 - d. None of above
4. Bloody diarrhoea is clinical presentation of which disease condition
 - a. Hepatitis
 - b. Jaundice
 - c. Crohn disease
 - d. Ulcerative colitis
5. Cancer is caused by
 - a. Uncontrolled mitosis
 - b. Uncontrolled meiosis
 - c. Rupturing of cell
 - d. Loss of Immunity of cells
6. _____ is an autoimmune disorder.
Gout
 - a. Tuberculosis
 - b. Rheumatoid arthritis
 - c. Osteoporosis
 - d. All of above
7. _____ is a neurodegenerative disorder, primarily affecting cholinergic neurons in brain

- a. Parkinson's disease
 - b. Psychosis
 - c. Epilepsy
 - d. Rheumatoid Arthritis
8. A swelling of the skin and underlying tissues giving a waxy consistency is clinical presentation of
- a. Myxoedema
 - b. Cretinism
 - c. Leukaemia
 - d. None of above
9. A severe hypothyroidism present at birth is known as
- a. Cretinism
 - b. Grey Baby Syndrome
 - c. Beriberi
 - d. None of above
10. Aggression of tissue or mass of cell inside body is known as
- a. Neoplasm
 - b. Tumor
 - c. Scar
 - d. None of above
11. Thyrotoxicosis is also known as
- a. Hypothyroidism
 - b. Hyperthyroidism
12. The repetitive seizure that leads to jerking and muscle spasms called as _____
- a. Seizure
 - b. Epilepsy
 - c. Convulsion
 - d. none of these
13. The chronic disease condition associated with small and large intestine is
- a. Diarrhoea
 - b. Hepatitis
 - c. IBD
 - d. None of above
14. The confirmation test for diagnosis of T. B. infection is
- a. CBC test
 - b. ELISA test
 - c. Mantoux test
 - d. CT scan test
15. Symptoms of cystitis mainly includes
- a. Burning with urination
 - b. Vomiting
 - c. Flank pain
 - d. Pelvic pressure
16. Incubation period for typhoid microorganism is _____
- a. 5 to 7 days
 - b. 1 to 3 months
 - c. 2 to 6 Years
 - d. 10 to 14 days
17. An agent that cause viral meningitis

- c. Plasmodium
 - d. Varicella zoster
18. Long-term assessment of diabetes is provided by the following investigation
- a. Whole blood glucose estimation
 - b. Plasma glucose estimation
 - c. Capillary method of glucose estimation
 - d. Glycosylated haemoglobin
19. Lepromin test is always positive in
- a. Lepromatous leprosy
 - b. Borderline lepromatous leprosy
 - c. Tuberculoid leprosy
 - d. Indeterminate leprosy
20. Which is the most common micro-organism responsible for UTI in adult
- a. Streptococcus faecalis
 - b. Escherichia coli
 - c. Klebsiella
 - d. Streptococcus pneumonia
21. Examination of the brains of ALZHEIMER'S DISEASE patients has revealed deposition
- a. Protein
 - b. Amyloid β protein and neurofibrillary tangles
 - c. Dopamine
 - d. Fat
22. The process of spread of tumor from primary site to secondary site is called
- a. Mutation
 - b. Metastasis
 - c. Promotion
 - d. Initiation
23. When overall red blood cells count decrease but size is normal such type of anemia is known as
- a. Normocytic
 - b. Hypochromic
 - c. Microcytic
 - d. Macrocytic
24. Angular cheilitis is symptoms of which anemia
- a. Sickle cell anemia
 - b. Megaloblastic anemia
 - c. Iron deficiency anemia
 - d. None of above
25. DNA replication of cell is usually carried out in which phase
- a. G1 Phase
 - b. M phase
 - c. S Phase
 - d. G2 Phase
26. A neurodegenerative disease, which means there is progressive brain cell death is known as
- a. Depression
 - b. Schizophrenia
 - c. Alzheimer Disease
 - d. Stroke
27. Crohn's disease is characterized by the following histopathologic features except

- a. Non-caseating sarcoid like granulomas
 - b. Superficial mucosal ulceration
 - c. Structure formation in chronic cases
 - d. Widening of submucosa due to oedema
28. Cystitis & Pyelonephritis is the infection of _____ respectively
- a. Urethra & urinary bladder
 - b. Urinary bladder and kidney
 - c. Kidney & urethra
 - d. None of these
29. Haemophilia A & haemophilia B caused by deficiency of factor _____
& _____ respectively
- a. VIII, XI
 - b. II, IX
 - c. VII, IX
 - d. VIII, IX
30. Incubation period for HbV virus is
- a. 18-45 days
 - b. 30-180 days
 - c. 7-10 days
 - d. 9-15 days



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Second Sessional Theory Examination 2020-2021
(Even SEM)

Subject & Subject Code: Pathophysiology (BP204T)

Day & Date: Tuesday 31.08.2021

Class: S. Y. Pharm

Time: 10.30 – 12.00 Noon

Semester: II

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. Long-term assessment of diabetes is provided by the following investigation
 - a. Whole blood glucose estimation
 - b. Plasma glucose estimation
 - c. Capillary method of glucose estimation
 - d. Glycosylated hemoglobin
2. An agent that cause viral meningitis
 - a. Pneumococcus
 - b. Aspergillus
 - c. Varicella zoster
 - d. Plasmodium
3. A swelling of the skin and underlying tissues giving a waxy consistency is clinical presentation of
 - a. Myxoedema
 - b. Cretinism
 - c. Leukemia
 - d. Goitre
4. _____ is a neurodegenerative disorder, primarily affecting cholinergic neurons in brain
 - a. Psychosis
 - b. Parkinson's disease
 - c. Epilepsy
 - d. Rheumatoid Arthritis
5. Examination of the brains of ALZHEIMER'S DISEASE patients has revealed deposition
 - a. Protein
 - b. Amyloid β protein and neurofibrillary tangles
 - c. Dopamine
 - d. Fat
6. Incubation period for HbV virus is
 - a. 18-45 days
 - b. 30-180 days
 - c. 7-10 days
 - d. 9-15 days

Rahmod
(Sumit S. Rahmod)



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7. _____ is an autoimmune disorder.
- Tuberculosis
 - Rheumatoid arthritis
 - Osteoporosis
 - All of above
8. HIV attack _____ immune cells
- Cytotoxic T cells
 - Macrophage
 - B-lymphocytes
 - Helper T cells
9. Cancer is caused by
- Uncontrolled mitosis
 - Uncontrolled meiosis
 - Rupturing of cell
 - Loss of Immunity of cells
10. The confirmation test for diagnosis of T. B. infection is
- CBC test
 - ELISA test
 - Mantoux test
 - CT scan test

QII Long Answers (Answer any 1 out of 2)

10

- Explain in details clinical symptoms, etiology, and pathogenesis of tuberculosis
- Define Cancer, give its etiology and pathogenesis

QIII Short Answers (Answer any 2 out of 3)

10

- Discuss mode of transmission and Pathogenesis of AIDS.
- Discuss pathogenesis diabetes mellitus
- Add short note on jaundice



Second Sessional Theory Examination 2018-2019

Subject: Pharmaceutical Organic Chemistry (BP 202T)

Day & Date: Wed, 24/04/2019

Class: First Year B. Pharm.

Semester: II

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

Q. I. Multiple Choice Questions (MCQs)

10

1. In elimination reaction of alkyl halides, the major product is that alkene in which double bond is more highly substituted, is the
a) Markovnikov's rule b) Hoffman rule c) Saytzeff rule d) Antimarkovnikov's rule
2. Ozonolysis of alkenes yields.....
a) alkynes b) alkanes c) alcohol d) carbonyl compounds
3. Which of the following compound is a conjugated diene?
a) 1,4-pentadiene b) 1,2 butadiene c) 1,3-butadiene d) all of these
4. Carbylamines test is given by.....
a) primary amine b) secondary amine c) tertiary amine d) quaternary ammonium salt
5. The carbon atom involved in double bond of alkene is
a) SP hybridized b) SP² hybridized c) SP³ hybridized d) unhybridized
6. The effect of electron releasing substituent on basicity of amines is
a) basicity increases b) basicity decreases c) no effect on basicity d) none of these
7. When two groups or atoms are lost from adjacent carbon atoms to form carbon-carbon double bond, the reaction is called as.....
a) 1,1 –elimination b) 1,2- elimination c) substitution d) addition
8. The rate of reaction in E1 mechanism depends upon concentration of
a) substrate only b) base only c) both substrate and base d) none of these
9. Which of the following is the strongest acid?
a) acetic acid b) chloroacetic acid c) dichloroacetic acid d) trichloroacetic acid
10. Primary Hydrogen isotope effect is observed in
a) E₁ reaction b) E₂ reaction c) SN₁ reaction d) SN₂ reaction

Q. II. Solve any One

10

1. Explain the kinetics, mechanism, orientation and stereochemistry of E1 and E2 reactions.
2. Explain, why Aldehydes are more reactive than ketones towards nucleophilic addition reactions?
Write a note on Aldol condensation and Benzoin condensation.

Q. III. Solve any Two (5 Marks each)

10

1. Why carboxylic acids are stronger acids than alcohols? Explain the effect of substituent on acidity of carboxylic acids.
2. Write a note on: i) Diels Alder reaction ii) Basicity of aliphatic amines
3. Give the structures and uses of following compounds -Acetyl salicylic acid, Acetone, methyl salicylate, Vanillin and Chloral hydrate



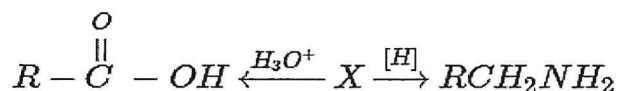
Second Sessional Theory Examination 2020-2021
(EVEN SEM)

Subject: Pharmaceutical Organic Chemistry I (BP202T) **Day & Date:** Saturday 28/08/2021
Class: First Year B. Pharm. **Semester:** II
Time: 10:30 am – 12:00 pm **Max. Marks:** 30

Instructions: 1. All questions are compulsory
2. Right hand side number indicates full marks

Q. I. Multiple Choice Questions (MCQs) 10

- The complete transfer of shared pair of pi electrons of carbonyl group to oxygen atom in presence of an attacking reagent is called as.....
a) Inductive effect b) Electromeric effect c) Hyperconjugation d) Resonance effect
- Compound which gives acetone on ozonolysis is.....
a) $\text{CH}_3\text{-CH=CH-CH}_3$ b) $(\text{CH}_3)_2\text{C=C(CH}_3)_2$ c) $\text{C}_6\text{H}_5\text{CH=CH}_2$ d) $\text{CH}_3\text{CH=CH}_2$
- The final product in Cannizzaro reaction is
a) Aldehyde b) ketone c) hydrazone d) alcohol and salt of carboxylic acid
- The reaction of Grignard's reagent with ketone forms
a) Primary alcohol b) secondary alcohol c) tertiary alcohol d) carboxylic acid
- Which of the following is more reactive towards nucleophilic addition?
a) Acetone b) acetaldehyde c) formaldehyde d) butanone
- The reaction of carboxylic acids with alcohols catalyzed by conc. H_2SO_4 is called
a) Dehydration b) Saponification c) Esterification d) Neutralization
- Carboxylic acids are more acidic than phenol and alcohol because of
a) Intermolecular hydrogen bonding b) Formation of dimers
c) Highly acidic hydrogen d) Resonance stabilization of their conjugate base
- In the given reaction what is the X?



- Isonitrile b) alkyl Nitrile c) ketone d) Oxime
- Carbylamines test is given by.....
a) Primary amine b) secondary amine c) tertiary amine d) quaternary ammonium salt
- When methyl iodide is heated with ammonia, what is the product obtained?
a) Methylamine b) Dimethylamine
c) Trimethylamine d) A mixture of Methylamine, Dimethylamine & Trimethylamine

Q. II. Solve the following (any ONE) 10

- Explain why Aldehydes and ketones are susceptible for nucleophilic addition reactions. Give any two methods for preparation of aldehydes. Write a note on Perkin reaction.
- Why Aldehydes are more reactive than ketones towards nucleophilic addition reactions? Explain the Electromeric effect. Write a note on Cannizzaro reaction.

Q. III. Solve any TWO questions from the following. 10

- Arrange the following compounds in order of increasing acidity and justify your answer. Chloroacetic acid, formic acid, acetic acid, dichloroacetic acid.
- Explain the test to distinguish between primary, secondary and tertiary amines.
- Give the structure and uses of ethanalamine, ethylenediamine, acetic acid, tartaric acid, citric acid



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Second Sessional Theory Examination 2021-2022 (Even Sem)

Subject: Pharmaceutical Organic Chemistry-I (BP202-T)

Day & Date: Monday 08/08/2022

Time: 10.30 am - 12.00 pm

Semester: II

Class: F. Y. B. Pharm

Max. Marks: 30

- Instructions:**
1. All questions are compulsory
 2. Draw a well labelled diagram wherever necessary
 3. Right hand side number indicates full marks

QI Multiple Choice Questions (MCQs)

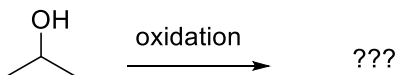
10

Select the most appropriate answer

1. Which of the following will not undergo aldol condensation?
 a) Acetaldehyde b) Propanaldehyde c) Butyraldehyde d) Benzaldehyde
2. Which of the following will undergo Cannizzaro's reaction?
 a) Acetaldehyde b) Propanaldehyde c) Butyraldehyde d) Benzaldehyde
3. The role of carbonyl carbon atom in the given structure is

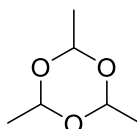


- a) Electrophile b) Nucleophile c) Radical d) None
4. The reaction of carboxylic acids with alcohols catalysed by conc. H₂SO₄ is called ____
 a) Dehydration b) Saponification c) Fischer Esterification d) Neutralization
5. Synthesis of Cinnamic acid is an example of
 a) Aldol condensation b) Cannizzaro reaction c) Perkin Condensation d) All of the above
6. Predict the product.....

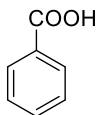


- a) $\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{R} \end{array}$ b) $\text{CH}_3-\text{CH}_2-\text{CH}_3$ c) $\begin{array}{c} \text{HO} \\ | \\ \text{CH}_2-\text{CH}-\text{CH}_3 \end{array}$ d) All of the above

7. The name of following structure is



- a) Formaldehyde b) benzaldehyde c) Paraldehyde d) None of the above
8. The name of following structure



- a) Benzoic acid b) Salicylic acid c) Phenyl benzoate d) Methyl salicylate

9. Benzene sulphonyl chloride is the reagent in which of the following test used for amine detection (LLI, CO₄)

- a) Lucas test b) Hinsberg test c) Carbylamine test d) None of the above
10. Electron donating groups basicity of amine
- a) Increases b) decreases c) No change d) None

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

10

1. Explain, why Aldehydes and ketones are susceptible for nucleophilic addition reactions? Explain the reaction and mechanism of Aldol condensation and benzoin condensation?
2. What are carboxylic acids and amine? Give its reactions? Explain the effect of substituents on acidity of carboxylic acids and basicity of amine

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

10

1. Enlist the qualitative test for alcohol? Explain any three?
2. Write short note on Cannizzaro's reaction
3. Give the synthetic methods of i) Aldehyde ii) Carboxylic acid



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Second Sessional Theory Examination (Even SEM) 2022-2023

Subject : Pharmaceutical Organic Chemistry-I (BP202T)	Day & Date :	Tuesday 08/08/2023
Class : First Year B. Pharmacy	Semester : II	Write Your Seat No. Here
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 4. Do not write/tick on the question paper		
Q. I: Short Answer Questions		10 M
1. Write down the structure and uses of benzyl alcohol? 2. What are carbonyl compounds? Describe any two methods of preparation for aldehydes and ketones? (LL2, CO3) 3. Enlist qualitative test for (LL2, CO3) a) Alcohol b) Aldehyde 4. Write in short about crossed aldol condensation reaction? (LL4, CO4) 5. What are aliphatic amines? Discuss any three general methods of preparation for aliphatic amines. (LL4, CO4)		
Q. II: Long Answers Questions (Answer any 1 out of 2)		10
1. Explain, why Aldehydes and ketones are susceptible for nucleophilic addition reactions? Explain the reaction and mechanism of Aldol condensation and benzoin condensation? (LL2, CO3) 2. What are carboxylic acids and amine? Give its reactions? Explain the effect of substituents on acidity of carboxylic acids and basicity of amine? (LL4, CO4)		
Q. III: Short Answers Questions (Answer any 2 out of 3)		10 M
1. Explain qualitative tests for aldehyde and ketone? (LL2, CO3) 2. Write short note on Cannizzaro's reaction? (LL4, CO4) 3. Write short note on Perkin condensation? (LL4, CO4)		

Prepared By

Checked by

Verified By



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: Pharmaceutical Organic Chemistry I (BP 202T)

Day & Date: Wed, 04/09/2019

Class: First Year B. Pharm.

Semester: II

Time: 01.30 pm – 03.00 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

Q. I. Multiple Choice Questions (MCQs)

10

- Carbylamines test is given by.....
a) primary amine b) secondary amine c) tertiary amine d) quaternary ammonium salt
- The effect of electron releasing substituent on basicity of amines is
a) basicity increases b) basicity decreases c) no effect on basicity d) none of these
- Which of the following is the strongest acid?
a) acetic acid b) chloroacetic acid c) dichloroacetic acid d) trichloroacetic acid
- The IUPAC name of isopropyl bromide is.....
a) 1-bromoethane b) 2-bromoethane c) 1-bromopropane d) 2-bromopropane
- When chiral compound undergoes SN2 reaction, the product is obtained with.....
a) Inversion of configuration b) Retention of configuration c) Racemization d) plane of symmetry
- The intermediate formed in SN1 mechanism is.....
a) carbene b) free radical c) carbocation d) carbanion
- Which compound reacts most readily by SN2 mechanism?
a) methyl chloride b) isopropyl chloride c) ethyl chloride d) tert-butyl chloride
- Which compound reacts most readily by SN1 mechanism?
a) methyl chloride b) isopropyl chloride c) ethyl chloride d) tert-butyl chloride
- Which of the following is the strongest base?
a) ammonia b) methylamine c) dimethylamine d) aniline
- Electron withdrawing substituent on carboxylic acid
a) increases acidity b) decreases acidity c) no effect on acidity d) none of these

Q. II. Solve any One

10

- Explain the kinetics, mechanism, reactivity and stereochemistry of SN1 reaction.
- Explain the kinetics, mechanism, reactivity and stereochemistry of SN2 reaction.

Q. III. Solve any Two (5 Marks each)

10

- Why carboxylic acids are stronger acids than alcohols? Explain the effect of substituent on acidity of carboxylic acids.
- Give any two methods for preparation of amines with examples.
- Write a note on basicity of amines.

SVKM's Institute of Pharmacy, Dhule
Improvement Sessional Examination 2018-19

Subject: Pathophysiology BP204T

Class: B. Pharm (Sem II)

Total Marks: 30

Time: 2.00pm to 3.30pm

Roll. No.:

Date: 03/05/2019

Q.1 Multiple Choice Questions: (10 x 1)

(10)

1. Etiopathogenesis of cretinism does not includes _____
 - A. Thyroid agenesis
 - B. *Genetic defect* in thyroid hormone synthesis
 - C. *Foetal exposure* to iodides and antithyroid drugs
 - D. Immune destruction of thyroid cell
2. Most frequently and severely involved joints in rheumatoid arthritis are
 - A. Knees
 - B. Elbows
 - C. Interphalangeal
 - D. Sacroiliac
- 3 The following hepatotropic virus is a DNA virus:
 - A. HAV
 - B. HBV
 - C. HCV
 - D. HEV
- 4 An example of tumor suppressor gene is _____
 - A. p53
 - B. C-myc
 - C. ras
 - D. bcr
5. Hepar lobatum is seen in
 - A. Primary syphilis
 - B. Secondary syphilis
 - C. Tertiary syphilis
 - D. Congenital syphilis
6. Diagnosis of AIDS for ELISA positive patient can be confirmed by
 - A. Northern blotting
 - B. Western blotting
 - C. Southern blotting
 - D. None of the above
7. Amyloidosis is seen in which type of diabetes:
 - A. Type I DM
 - B. Type II DM
 - C. Gestational diabetes
 - D. MODY
8. The following are correct statements for type 2 diabetes (NIDDM) *except*:
 - A. It is more than common than IDDM
 - B. These patients are generally obese
 - C. There is role of insulin resistance
 - D. There is presence of 'insulinitis'
9. Following are the causative organism of meningitis except
 - A. *Spirochetes*
 - B. *E. coli*
 - C. *Haemophilus influenza*
 - D. *Neisseria meningitidis*
10. Absorption of iron is enhanced by the following *except*:
 - A. Ascorbic acid
 - B. Citric acid
 - C. Tannates
 - D. Sugars

Q2. Answer any two

1. Explain Thalassemia with respect to etiology, pathogenesis, sign & symptoms
2. Explain etiology, pathogenesis, sign & symptoms of Syphilis.
3. Explain etiology, pathogenesis of leprosy.

Q3. Answer any one :

1. Define cancer, differentiate between benign & malignant tumour, enlist etiologic factor & describe pathophysiology of Cancer.
2. Describe in details Diabetes Mellitus



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Improvement Test-(ODD SEM) 2022-2023

Subject	Remedial Mathematics(BP106RMT)	Day & Date	Thursday, 17/08/2023	
Class	First Year B. Pharmacy	Semester	I	<i>Write Your Seat No. Here</i>
Time		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

QII	Long Answers Question (Answer any 1 out of 2)	10 M
1.	Resolve into Partial Fraction $\frac{9x-7}{(x+3)(x^2+1)}$	(LL3, CO1)
2.	Using the adjoint Method, Find inverse of $A = \begin{bmatrix} 1 & -1 & 2 \\ 2 & -1 & 1 \\ 1 & 1 & -1 \end{bmatrix}$	(LL3, CO2)
QIII	Short Answers Question (Answer any 4 out of 6)	20 M
1.	Resolve into the partial fraction: $\frac{x^2-3x+1}{(x-1)^2(x-2)}$	(LL3, CO1)
2.	Find the value of x, if $\log(x+5)+\log(x-5)=4\log 2+2\log 3$	(LL3, CO1)
3.	Prove that : $2\log\left(\frac{15}{18}\right)-\log\left(\frac{25}{162}\right) + \log\left(\frac{4}{9}\right) = \log 2$	(LL3, CO1)
4.	Solve the following System of equations: $\begin{matrix} x + y + z & = & 6 \\ 2x + 3y - z & = & 5 \\ 6x - 2y - 3z & = & -7 \end{matrix}$ Using crammers rule.	(LL3, CO2)
5.	Find Characteristics equation of $A = \begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$	(LL3, CO2)
6.	Verify Cayley Hamilton Theorem for $A = \begin{bmatrix} 1 & 1 \\ 1 & 0 \end{bmatrix}$	(LL3, CO2)

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Remedial Sessional Theory Examination 2019-2020

Subject : Biochemistry Day & Date : 05/09/2019
Class : F. Y. B. Pharmacy Semester : II
Time : 01:30 pm to 03:00 pm Max. Marks : 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]
- a Oxidation of one molecule of glucose produces _____ pyruvate
e. 1 f. 2
g. 4 h. 8
- b Phenomenon of disorganisation in native structure of protein is c/as _____
e. Precipitation f. Denaturation
g. Coagulation h. Oxidation
- c Saturated fatty acid is _____
e. Not required in diet f. No double bond in structure
g. Also c/as Non-essential fatty acid h. All of above
- d Enzyme which produce in response to substrate is c/as _____ enzyme.
e. Repressible f. Constitutive
g. Induced h. Conjugate
- e The human end product of purine catabolism is _____
e. Urea f. Purine oxide
g. Uric acid h. Xanthine
- f _____ is called power house of cell.
e. Nucleus f. Cell membrane
g. Mitochondria h. Lysosomes
- g _____ is non reducing sugar
e. Glucose f. Maltose
g. Lactose h. Sucrose
- h The carbohydrate reserved in body in the form of _____
e. Starch f. Glucose
g. Glycogen h. Insulin
- i _____ is essential amino acid
e. Valine f. Glycine
g. Alanine h. Histidine
- j Pyruvate dehydrogenase is _____ type of enzyme.
e. Hydrolase f. Oxidoreductase
g. Lyase h. Ligase
- Q.2. Answer the following short questions (any two) [10]
- a Differentiate between DNA & RNA.
b Define and classify lipids. Add a note on complex lipids
c Explain urea cycle in detail.
- Q.3. Answer in detail of following (any one) [10]
- a What is Glycolysis? Explain the various reaction involved with generation of ATP.
b Depict and elaborate various phases involved in β -oxidation of palmitic acid.



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Second Sessional Theory Examination 2018-2019

Subject: Computer Applications in Pharmacy

Day & Date: Friday, April 26, 2018

Class: F.Y.B.Pharmacy & Direct Second Year Admitted

Semester: II

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*

Q I Long Answers (Answer any 1 out of 2) 10

1. What is bioinformatics? Describe detailed applications of bioinformatics
2. List and explain the symbols used in DFD Explain the Rules to create DFD

Q II Short Answers (Answer any 4 out of 6) 20

1. Describe the Structure of electronic health Record over traditional techniques and elements of Electronic Health Record
2. Define eprescription? Write about automated dispensing cabinet
3. How the patient monitoring system works and write a note on intelligent patient monitoring system
4. Write a Note on chromatographic data system
5. Differentiate between XML and HTML with example.
6. Describe Server Client and Client Server Technology with an example.

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