

	20221
Seat No.	

Instructions -

- (1) All Questions are Compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.
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Marks

### 1. Attempt any SIX of the following:

30

- a) Classify antibiotics. Write note on anthelmintics.
- b) What are different route of drug administration? Write the advantages and disadvantages of IV route.
- c) Describe Oral Hypoglycemic agents with reference to its classification and examples. Why insulin is not used by oral route?
- d) Discuss different drugs used in the treatment of angina pectoris. Write mechanism of action of any one drug.
- e) Define General Anesthetics. What is Schizophrenia? Mention drugs used in treatment of Schizophrenia.
- f) i) Give the pharmacological action of adrenaline.
  - ii) Classify parasympathomimetics with example.
- g) Write treatment of peptic ulcer by classifying the drugs used and mention mechanism of action of each category.

#### 2. Attempt any TEN of the following:

- a) Describe the factor influencing absorption of drug. Explain any one factor.
- b) Classify NSAIDs with examples.
- c) Classify anti-fungals drug with example.
- d) Define and Classify antihypertensive agents with examples.
- e) What is haematinic? Give uses of anti-coagulant drugs.
- f) Explain the mechanism of action and side effects of Sulphonamides.
- g) What are diuretics? Explain thiazides as diuretics.
- h) Write note on Anti-thyroid drugs.
- i) Explain triple response of Histamine.
- j) Define Hypnotics. Classify with suitable example.
- k) Write use and one example each of
  - i) Expectorant
  - ii) Bronchodilator



Marks

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3.		Answer ALL questions of the following:	
	a)	Drug administered through the following route is most likely to be subjected first pass metabolism.	to
		i) Oral	
		ii) Sublingual	
		iii) Subcutaneous	
	-	iv) Rectal	
	b)	Give two examples of neuromuscular blocking agents.	
	c)	The β1 receptor are located in	
		i) Heart	
		ii) Lungs	
		iii) Kidney	
		iv) Adrenal Gland	
	d)	Local anesthetics produce:	
		i) Analgesia, amnesia, loss of consciousness	
		ii) Blocking pain sensation without loss of consciousness	
		iii) Alleviation of anxiety and pain with an altered level of consciousness.	
		iv) A stupor or somnolent state.	
	e)	Give two examples of mydriatics.	
	f)	If the pressure inside eye is higher than normal person,	
		i) May have cataract	
		ii) May be at risk for glaucoma	
		iii) Need eyeglasses	
		iv) Have infection	
	g)	Give two examples of drugs used as Nootropic agents.	
	h)	Phenytoin is used in the treatment of	
	i)	Statins are used in atherosclerosis. State true or false.	
	j)	Give example of one drug used in treatment of manic depressive illness.	
	k)	Give example of one thrombolytic agent.	
	1)	Define laxative.	
	m)	Anti diuretics are the drugs which have following action	
		i) Increase urine output	
		ii) Decrease urine output	
		iii) Stop urine formation	
		iv) Cause drowsiness	
	n)	is caused by deficiency of Vitamin D.	
	o)	The main hormone secreted by the thyroid gland is	
	p)	Give two examples of anti-histaminics.	
	q)	Mention two drugs used in treatment of cancer.	

r) Name one Anti-TB drugs used in Resistant TB.

s) Give example of one biological drug.

t) Define Biologicals.





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Marks

## 1. Attempt any SIX of the following:

30

- a) Define prescription. Draw a model format for prescription. Explain various parts of a prescription.
- b) Discuss/Write the counselling points for Tuberculosis patients.
- c) Define minor ailment. Describe the self care advice by the pharmacist in pain management.
- d) Give advantages and disadvantages of online pharmacies.
- e) Define Finance. Explain the types of finance and sources of finance.
- f) Define self medication. Write its advantages and disadvantages.
- g) What is community pharmacy management? What documents are needed while submitting application for retail sale license.

#### 2. Attempt any TEN of the following:

30

- a) Define patient counselling. What are the benefits of patient counselling?
- b) Write social and economic factor influencing adherence to prescribed medication.
- c) Give the importance of health screening services at community pharmacy.
- d) Define OTC medicines. What are the probable risks of taking OTC medicines?
- e) Describe the oral communication skill.
- f) Describe the professional responsibilities of a community pharmacist.
- g) Define Audits. Give any four benefits of audits in community pharmacy.
- h) What is communication? Write short note on body language as effective communication.
- i) Define auxiliary label. Give advantages of pictogram.
- j) Give criteria for vendor selection for supplying medicine in community pharmacy.
- k) Define community pharmacy, community pharmacist and independent pharmacy.

### 3. Attempt all questions.

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- a) GPP guidelines for community pharmacy are drafted by the 1 PA in the year \_\_\_\_\_.
- b) Patient counselling helps to motivate the patient to take medicine for improvement of his/her health status: TRUE / FALSE
- c) Sphggmomanometer is used to measure .
- d) What is standard operating procedure?
- e) Define patient package inserts.

P.T.O.

f)	The extent to which patients take medication as prescribed by prescriber is called
g)	As per drugs and cosmetic rules, 1945, which one of the following rule indicate the presence of pharmacist is legally required during the dispensing and selling of medicines.
	i) Rule 45(15)
	ii) Rule 65(25)
	iii) Rule 65(15)
	iv) Rule 75(15)
h)	The prescriber indicates the direction for the patient, for the use of the medication in the portion of the prescription is called as
i)	Restricted salt intake is recommened in
	i) High Blood pressure
	ii) Low Blood Pressure
	iii) Diabetes
	iv) Asthma
j)	Body Mass Indexing (BMI) is the most common screening test for
k)	ORS is used in the management of
1)	Self medication should not be done with prescription medicine: TRUE / FALSE
m)	What is book of original entry?
n)	The minimum floor space specified for operating a retail pharmacy is
o)	Who is the Licensing Authority for issuing retail sale license?
p)	In Finance, what business owns is called as
q)	Morphine is not used as OTC medicine due to chance of abuse : TRUE / FALSE
r)	Ambient temperature should be maintained in the pharmacy within the required range to prevent of medicines.
s)	From the following features, what is applicable to petty cash?
	i) Small amount of cash
	ii) Used for minor expenses
	iii) Is easy and quick way for payment
	iv) all of the above
t)	As per Drug price control order 2013, a community pharmacies have the liberty to sell medicines at a price to maximise the profit: TRUE / FALSE

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Marks

### 1. Attempt any SIX of the following:

30

- a) Explain the various structural levels of proteins.
- b) Discuss the pathway for the conversion of glucose to pyruvate.
- c) Explain the mechanism of action of enzymes with various theories.
- d) Explain Kreb's cycle.
- e) What is dehydration? What are the causes of dehydration? Write a note on ORS.
- f) Enlist various functions of the liver. What are the routinely performed tests for assessing the functions of the liver?
- g) Define Lipids. Write about the structure and functions of Cholesterol in the body. Enlist any two properties of triglycerides.

### 2. Attempt any <u>TEN</u> of the following:

30

- a) Draw structure of any three reducing monosaccharides.
- b) Define carbohydrates. Classify them.
- c) What are nucleosides and nucleotides?
- d) Enlist factors affecting enzyme action.
- e) Explain ETC chain.
- f) Write the functions of Calcium and its deficiency diseases.
- g) Which pathological conditions are observed due to abnormal constituents in urine?
- h) Discuss Glycogenesis.
- i) What is Lymphocytosis, Lymphocytopoenia, Phenylketonuria?
- i) Write the functions of any three fat soluble vitamins.
- k) Discuss diseases related to abnormal carbohydrate metabolism.

### 3. Attempt the following:

20

- a) Define Anemia.
- b) Which of the following is a sulphur containing amino acid.
  - i) Alanine
  - ii) Glycine
  - iii) Methionine
  - iv) Valine.
- c) Enlist any two routinely performed Kidney function tests.
- d) Name any two lipid profile tests.

P.T.O.

iii) Uraciliv) Adenine.



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e)	What are the coenzymes of Riboflavin and Nicotinic acid.
f)	Which of the following diseases is caused by the deficiency of Niacin?
	i) Scurvy
	ii) Rickets
	iii) Pellagra
	iv) Pernicious anaemia.
g)	Explain "Fatty liver".
h)	Alkaptonuria is a disease related to
i)	Define Essential Amino acids.
j)	When glucose reacts with bromine water it forms -
	i) Glutaric acid
	ii) Glyceraldehyde
	iii) Saccharic acid
	iv) Gluconic acid
k)	Name any two diseases due to malnutrition of proteins.
1)	Which of the following is essential fatty acid has three double bond?
	i) Linolenic acid
	ii) Arachidonic acid
	iii) Linoleic acid
	iv) Clupanodonic acid.
n)	Stearic acid has Carbon atoms.
n)	Name of Vitamin A is
o)	Hypercholesterolemia is caused due to
p)	Write full form of SGOT and SGPT.
q)	Jaundice is a symptom of disease. True or False.
r)	What is the significance of BUN.
s)	Chloride and Bicarbonate ions occur predominantly in
t)	Identify the purine base of nucleic acids in the following -
	i) Cytosine
	ii) Thymine



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Marks

### 1. Attempt any SIX of the following:

30

- a) Explain the clinical manifestation and pharmacological and non-pharmacological Management of diabetus Mallitus.
- b) Write scope and objectives of pharmaco-therapeutics.
- c) What is hyperlipidemia? Explain Etiopathogenesis of it.
- d) Explain clinical manifestation of epilepsy. Describe it's pharmacological and Non-pharmacological management of epilepsy.
- e) What is Tuberculosis? Explain etiopathogenesis and clinical Manifestation of Tuberculosis.
- f) Define and explain types, etiopathogenesis of peptic ulcer.
- g) Describe pharmacological and non-pharmacological management of Hepatitis.

## 2. Attempt any <u>TEN</u> of the following:

30

- a) What is glaucoma? Explain clinical manifestation of glaucoma.
- b) Explain pharmacological Management of Iron deficiency anaemia.
- c) Explain etiopathogenesis of Depression.
- d) Enlist the clinical Manifestation of Covid-19.
- e) Describe pharmacological management of Hypertension.
- f) What are three stages of ALD (Alcoholic Liver Disease)?
- g) Explain etiopathogenesis of Rheumatoid arthritis.
- h) Discuss prevention of anti-microbial resistance.
- i) Explain pharmacological Management of Parkinson's disease.
- j) What is polycystic ovary syndrome. Mention its clinical manifestations.
- k) Define emphysema and chronic Bronchitis mention clinical manifestations of COPD.

#### 3. Attempt ALL of the following:

- a) What is normal value of blood pressure.
- b) Define COPD.
- c) Parkinson's disease caused by loss or degeneration of ----- Neurons in the substania Nigra for midbrain.
- d) HIV stand for -----.
- e) Salbutamol is in the treatment of -----

f) Name drugs used in treatment of Malaria.

Marks

g)	What is dysmenorrhea?		
h)	What is Psoriasis?		
i)	What is angina pectoris?		
j)	Hyperthyroidism is caused by		
	i) Grave's disease		
	ii) Hashmoitois disease		
	iii) Iron deficiency		- /**
	iv) Thyroid hypoplacia		
k)	Define GERD.		
1)	Sulfa drug used in the inflammatory Bowel disease include		
	i) Sulfasalazine		
	ii) Sulfamethaxazole		
	iii) Sulfinpyrrazole		
	iv) Sulfadoxine		
m)	What is synonym for Eczema?		
n)	PCOS stands for		
o)	Define Schizophrenia.		
p)	Migraine is disorder.		
	i) Vascular		
	ii) Pulmonary		
	iii) Neurovascular		
	iv) Cardiovascular		
q)	Name causative organism of scabies.		15.
r)	GAD stands for		
s)	The use of at least five drug daily by an individual is		
	i) Polypharmacy		
	ii) Monopharmacy		
	iii) Pharmacy		
	iv) Monotherapy		5 50
t)	Megaloblastic Anaemia is a types of		
	i) Microcytic		
	ii) Macrocytic	5	
	iii) Narmocytic	27	
	iv) Narmochronic		
		(e	



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Marks

#### 1. Attempt any SIX of the following:

30

- a) Define ward round participation. Write the goal procedure of Ward round participation by clinical pharmacist.
- b) Define Inventory control. Enlist their methods and describe in detail "Economic Order Quantity" Method.
- c) Explain distribution and storage of NDPS in hospital.
- d) Define Drug information centre and Poison information centre. Write the various sources of drug information with examples.
- e) Enlist Different Test of Liver Functioning and explain any two of them.
- f) Define medication errors. Write various strategies to minimise medication errors.
- g) Define National Accreditation Board for Hospital and write its benefits and Role of Pharmacist in it.

#### 2. Attempt any TEN of the following:

30

- a) Define Hospital Pharmacy and write its scope.
- b) Define Drug related problem and classify it.
- c) Explain the Dispensing of Radiopharmaceuticals.
- d) Write about any 3 equipments used for maintaining cold storage condition.
- e) Define PTC and write the functions and scopes of the committee.
- f) Define Hospital formulary and write about contents of Hospital formulary.
- g) Enlist different software used in pharmacy and explain pharmacy management software.
- h) Write in brief about Drug Food Interaction with example.
- i) Define unit dose drug distribution with its advantages and disadvantages.
- j) Define Total Parenteral Nutrition with its contents.
- k) Write various storage conditions with temperature as per I.P.

## 3. Attempt <u>ALL</u> of the following:

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- a) Define clinical pharmacy.
- b) Give the dose for BAL Antidotes.
- c) Define the term HMR.
- d) Give the composition of Universal Antidotes.

P.T.O.



Marks

	i	i Car	I
e)	Give the meaning of following Latin term:		
	i) Auristille		
	ii) Ante jentaculum		
f)	Define Radiopharmaceuticals.		
g)	Define Anit-natal care.		
h)	Blood Pressure can be measured by		
i)	Pharmacist required for 100 bed Hospital		
	i) 02		
	ii) 05		
	iii) 05		
	iv) 08		
j)	AST has a wide distribution in		
	i) Tissue		
	ii) Cardiac		
	iii) Renal		
	iv) Blood		
k)			
1)	5		
	i) Mental functioning		
	ii) Physical functioning		
	iii) Body Temperature		
`	iv) All the above.	wantama lika fayar aay	a la
m)	The patients who come to the hospital with general stand cold are known as	ymptoms like lever, cou	gn
n)	Thyrocalcitonin is used to maintain.		
	i) Phosphate level		
	ii) Mg level		
	iii) CAL level		
	iv) None		
o)	Give the ingredients in TPN.		
p)	What are Reserved antibiotics.		
q)			
r)			
	i) Room temp		
	ii) Freezer		
	iii) Cold temp	6.	
	iv) Cool temp		
s)			
t)			
	i) Incineration Method		
	<ul><li>ii) Disposal to Sewers</li><li>iii) Directly to land fill</li></ul>		
	iii) Directly to land fill		

iv) All the above



20226
Seat No. | | |

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- (7) Answer as per latest amendments.
- (8) In case student has attempted sub-questions of question no. 3 more than once, only first attempt should be considered for assessment.

Marks

## 1. Attempt any SIX of the following:

30

- a) Discuss the qualification and Duties of Drug Inspector.
- b) Discuss the constitution and function of PCI.
- c) What is clinical trial and explain various phases of clinical trail.
- d) Discuss the various functions of CDL as per Drug and Cosmetic Act 1940.
- e) What is the role of pharmacist in relation to his job as per code of ethics.
- f) Give constitution of DTAB.
- g) Discuss the objective DPCO and the Retail Price of Drug is calculated.

### 2. Attempt any TEN of the following:

- a) Define Magic remedies and give exempted advertised under DMR Act. 1954. (any four)
- b) Explain the BCS System of classification.
- c) Give general principles of law.
- d) What are the powers of Drug Inspector as per D&C Act, 1940.
- e) Discuss certain operations controlled by Central Govt. under NDPS Act. 1985
- f) Discuss the qualification of Government Analyst.
- g) Discuss documentation, licenses and renewal procedure in Hospital pharmacy.
- h) Define 'Misbranded drug' as per D & C Act, 1940.
- i) Discuss the rules prescribed by the State Government in relation to possession and possession for sale of poison.
- j) What are the functions of the National Council for Clinical Establishment.
- k) Give bonafide reasons for termination of pregnancy under M.T.P., 1971.

Marks

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3.	Attempt ALL of the following:	
a	FSSAI stands for	
b	The HQ of CDSCO is located at	
	i) Mumbai	
	ii) Delhi	
-	iii) Chennai	
	iv) Kolkata	
c	How often we donate blood.	
	i) After 24 hours	
20	ii) After 3 hours	
	iii) After 3 months	
	iv) After 6 months	
ď	is celebrated as World Consumer Day.	
	i) 10 April	
	ii) 15 March	
	iii) 28 Feb	
	iv) 1 Jan	
e	The full form of IAEC is	
	i) Institutional Animal Ethics Committee	
	ii) Institutional Animal Ethics Corporation	
	iiii) Institutional Animal Education Committee	
	iv) None of above	
f	Give a function of CPCSEA.	
g	Medical Device Class III is stands for	
h	What does schedule 'S' prescribes under D & C Act, 1940.	
j	MTP Act was passed in year.	
' j	The provision of DPCO are implemented and enforced by	
37	i) DPEA	
	ii) NPPA	
	iii) MAPE	
	iv) None of above	
k	Give full form NLEM	
	Give one function of National Institute of Disaster Management.	
m	Give functions of DTAB.	
r	Pharmacist is liaison between &	
C	Define 'Bioethics'.	
ŗ	For glass bottle and broken glass articles which bag is used as per biomedical Waste Management Act.	
C	State the long form of ICMR.	
1	Enlist the principles of bioethics.	
5	Indian Veterinary Research Institute is situated at	
	What is Good Regulatory Practices?	