D. Pharm Part (I)

ER 2020

2022(I)

DO NOT WRITE ANYTHING ON VOID OUESTION PAPER EXCEPT VOUR ROLL NO \mathbf{E}

DO NOT WRITE ANTIHING ON TOUR QUESTION TALER EXCELT TOUR R	oll no.
QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALE	RACTICE

Subject: PHARMACEUTICS (Theory) Full Mark -80 Time -3 hrs 1. Long type questions (answer any six) [6x5=30]i. Define Immunity. Write down the details about small pox vaccine. (1+4=5)ii. Define tablet. Write down the details about excipients used in tablet preparation with suitable examples. (1+4=5)iii. Discuss different methods for identification of types of emulsion. (5) Define Q.A & Q.C. Write briefly about cGMP. (2+3)iv. Write down the principles, construction, working and application of Ball Mill with labelled v. (1+1+1+1+1=5)diagram. Write down different quality control tests for tablets. vi. (5) Write down different methods used in formulation of parenteral preparations. vii. (5) 2. Short type questions (answer any ten) [10x3=30]i. Write the ideal properties of filter aids. Give two examples of filter aid. ii. Write a short note on homogenisation.

- iii. Write a short note on Soxhlet extraction.
- Write a short note on sterilization. iv.
- Differentiate between flocculated and deflocculated suspension. v.
- vi. Write notes on factor affecting size reduction.
- vii. Define diffusible solid & indiffusible solid.
- viii. Write down the difference between liniments and lotions
- ix. Write short note on fusion method of preparation of suppositories.
- Differentiate between calibration and validation. х.
- Write a short note on effervescent granules. xi.

3. Objective type Questions, Answer all from both sections, Each carries One mark (20x1)

(A) DEFINE THE FOLLOWING

- i) Impact ii) Co-solvent. iii) Colloidal suspension. iv) enteric coated tablet v) Microencapsulation
- vi) Clarification vii) Lyophilisation viii) Sieve number ix) Mottling x) Opsonin.
- xi) Pharmacopoeia xii) Elixir xiii) Tablets xiv) Poultice xv) Extraction

(B) ANSWER THE FOLLOWING.

- Give two major differences between emulsion and suspension. i.
- Differentiate between 'purified water' and 'water for injection'. ii.
- iii. Write advantages of evaporating pan.
- Give two examples of wetting agent. iv.
- What is prodrug. v.

E. R. 1991

2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

Full M	ark -80	Subject: BIO-CHEMIS		CAL PATHOLOGY (Theory) Time -3 hrs
1.	A) a) e) i) B) i) ii) iii) iii) v)	· · · · · · · · · · · · · · · · · · ·	twashiorkor steomalacia aponification value following term neogenesis n's lymphoma educing sugar		(10X1) d)Hypernatremia h) Oligopeptide (5X2)
2.	 a) Write chemical properties of Fat & Oils. b) Describe about the beta oxidation of fatty acids. [5 + 5+5] c) Write a note on diseases due to disorder of fat metabolism 				
3.	deficie	and classify vitamins. Givency diseases of the following min B ₁ b) Vitamin B ₁₂ c) V	g.	ources, chemistry, physitamin D_3	siological function and [3+(3x4)=15]
4.	a) b) c)	Define and classify protein What are the biological fun Describe any one qualitativ	nctions of protein		[6+6+3=15]
5.	Describe TCA cycle and calculate total number of ATPs formed in it. Write about abnormalities of carbohydrate metabolism. [8+4+3=15]				
6.7.	the enzyme activity. Write short notes on (Any three): a) Megaloblastic Anaemia b) Urea Cycle [4+7+4=15] [5X3=15]				
	c) Role of Blood Platelets in health& diseases d) Michaelis—Menten equation e) Describe the difference between T & B lymphocytes ***********************************				

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D. Pharm Part - II

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2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

DRUG STORE & BUSINESS MANAGEMENT (Theory)

Full	Mark -80		`	Time -3 hrs
		(Answer any five questions	s including question No. 1)	
1.	A) Define the foll	owing terms:(Answer all		(20x1)
	i)ABC Analysis	ii) Acid test Ratio	iii) Bank	iv) Balance Sheet
	v) Buffer Stock	vi) Contra entry	vii) Cash Credit	viii) Cheque
	ix) Codification	x) Debenture	xi) Entrepôt xii)	Fixed capital
	xiii)Lead Time	xiv) Master budget	xv) Nominal Partn	ner
	B) Define the foll	owing abbreviations:(Ans	wer all)	
	a) EOQ	b) FIFO	e) GAAP d) I	LIFO e) ROI
2.	Write short notes of	on following questions. (An	y THREE)	(5×3)
	a) Advertisement	b) Recruitment c) T	riple column Cash book	d) VED analysis
3.	a) Write down the	salient features of "Sole Pr	oprietorship of Business"	(7)
	b) Describe the ad	vantages & disadvantages o	of this form of organisation	on. (4+4)
4.	What do you mear	n by pharmaceutical Manag	ement? What are the leve	els of management. (2+4)
	Write a note on fu	nctions of management.		(9)
5.	a) Define the term	Retailer. Describe the servi	ices performed by Retaile	er (7.5)
	b) Define the term	Wholesaler, Describe the s	ervices performed by Wh	nolesaler (7.5)
6.	Write short notes of	on following questions. (An	y THREE)	(5×3)
	a) functions of Co	mmercial Bank	b) Trial balance	
	c) Functions & Ob	jectives of Inventory Contr	ol d) Difference betw	veen Journal & Ledger
7.	Journalise the follo	owing transactions and post	them into concerned leds	ger (15)
	i) On July 01	, Mr. X started his business	with a capital Rs.50,000	/-
	ii) Purchase g	oods for cash Rs.10,000/-		
	iii) Bought fur	niture for cash Rs. 6,000/-		
	iv) Cash depos	sited in bank Rs. 5,000/-		
	v) Good sold	for cash Rs.20,000/-		
	vi) Paid salari	es expenses Rs.6,000/-		
	vii) Paid house	rent Rs.1,000/-		
	viii) Purchased	goods from Mr. Y on credit	t Rs.15,000/-	
	ix) Paid adver	tisement expenses Rs.500/-		

08/02/2023

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DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

HOSPITAL & CLINICAL PHARMACY (Theory)

Full M	Ting (Answer any five questions including question No. 1)	me -3 hrs
1.	A) Define the followings: i) Drug information Bulletin ii) Drug dependence iii) Hospital formulary vi) Surgical equipment v) High efficiency particulate air vi) Inventory control vii) Sterilization viii) Antidote ix) Idiosyncrasy x) Bed Side Pharmacy B) Define the following abbreviations: a) MRI b) EEG c)ECG d)ICCU e)CHF	7
2.	b) Discuss the Location & Layout of outpatients dispensing along with figure	(5) (5) (5)
3.	-	(5X3)
4.	Write Pathophysiology & Manifestation of (ANY THREE) i) Hepatitis ii) Diabetes iii) Peptic ulcer iv) Epilepsy	(5×3)
5.	i) Drug Induced Diseasesii) Role of PTC in drug safetyiii) Factors contributing non complianceiv) Medical complications & treatment of addictive drug alcohol	(5x3)
6.	Answer any THREE a) Describe the objectives and functions Hospital Pharmacy. b) Write the advantages & disadvantages of drug distribution System for in patients c) Describe the functions of District Headquarter Hospital. d) Write different application of computer in Hospital Pharmacy.	(5x3)
7.		(5 + 10)

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HEALTH EDUCATION & COMMUNITY PHARMACY (Theory)

Full I	Mark -80				Time -3 hrs
			questions including	question No. 1)	
1.	A) Define the follo	_			(1×20)
	i) Health	ii) Acute myoc	cardial infarction	iii) Three D'S dise	ase
	iv) Disinfection	v) Nosocomial	Infection	vi) Universal antid	ote
	vii) Prokaryotic	viii) Safe perio	od	ix) Epidemiologica	ıl Triad
	x)Demography				
	B) Define the follo	wing Abbreviation	ons		
	a) WHO	b) PEM	c) IUCD	d) NMEP	
	e) DEC	f) CHD	g) ORS	h) OTC	
	i) IDDM	j) FSH			
2.	Write the objective	s and principles of	f First Aid. Discuss i	in details the first aid	for Snakebite,
	Burns & Poisonin	g			(3+4+4+4)
3.	Write short notes o	n any three of the	following.		(3×5)
	i) Water pollution		ii) Cardiopu	lmonary Resuscitation	ns (CPR)
	iii) Sanitary Well		iv) Methods	of Sewage treatment	
4.	Define Food. Classify it according to chemical constituent, origin, function & nutritive value.				nutritive value.
	Describe the functi	on of carbohydrate	e, Protein & fats.		(2+8+5)
5.	What is Communic	able disease? How	w COVID 19 is relate	ed to communicable d	liseases? Write
	the causative agent	, mode of transmis	ssion & prevention of	of Influenzas, Chicken	pox Typhoid &
	Rabies.				[1+2+(3x4)]
6.	Write short notes o	n any three of the	following.		(3×5)
	i) Disinfection of S			ardness of water	, ,
	iii) Immunity		,	Ziehl–Neelsen Method	
7.	, , , , , , , , , , , , , , , , , , ,	gy. Write down th	,	lytical methods of Epi	
•	T		F - 7 - 22 - 22 - 22	,	(2+4+4+5)
		*****	*****		(= : : : : : :)

E. R. 2020

2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. **QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE**

HUMAN ANATOMY & PHYSIOLOGY (Theory)

Full Mark -80 Time -3 hrs

Answer any 6 out of 7.

 (5×6)

- Define & classify tissue. Write a note on Nervous Tissue.
- Write down the function of Blood. Discuss about the mechanism of Clotting b) and write down the Clotting factors.
- Describe the parts of Respiratory System& discus the mechanism of respiration. c)
- Draw a neat labelled diagram of EYE & write about the physiology of vision. d)
- Draw a neat & labelled diagram of female reproductive system. Write a short note on e) menstrual cycle.
- Give the location of adrenal gland. Write the function of the hormones secreted by cortex f) part of adrenal gland.
- Define joint. Give the classification of joint with suitable example. g)
- Answer any 10 out of 11. 2.

 (10×3)

- Write a note on flow of blood through heart.
- Write about the function of cerebellum & cerebrum b)
- Write a note on structure & function of kidney. c)
- Write down the Physiology of Urine formation. d)
- Write a note on circulation of Lymph. e)
- Write a note on mechanism of Hearing. f)
- Explain the role of Renin Angiotensin System in regulation of blood pressure. g)
- Give a brief description on human tooth with suitable diagram. h)
- i) Write a note on physiology of pain.
- Explain the process of Spermatogenesis **j**)
- Pancreas is known as both endocrine and exocrine gland. Justify your answer. k)
- A) Answer the followings. 3.

 (20×1)

- a) What is Osteomyelitis?
- Mention the parts of nephron. b)
- c) Enlist two functions of spleen.
- Write about the function of valve. d)
- Name the structures involved in urinary system. e)
- Enlist the function of CSF. f)
- Write the function of oxytocin. g)
- Difference between Tendon & Ligament h)
- i) Write the universal donor& universal recipient Blood group.
- Mention any two functions of liver.

B) Define the followings

- i) Endocytosis.
- ii) Thrombocytopenia
- iii) Atherosclerosis vii) Thrombopoiesis viii) Haematuria
 - iv) Erythropoiesis.

- v) Cardiac output ix)Deglutition
- x) Endocrine gland

vi) Rheumatoid arthritis.

c) Human Eye

E. R. 1991

2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

HUMAN ANATOMY & PHYSIOLOGY (Theory)

Full Mark -80 Time -3 hrs (Answer any five questions including question No. 1) 1. A) Define the followings: (20x1)a) Thrombocytopenia b) Anaemia c) Deglutition d) Vital capacity f) Glaucoma e) Oedema g) Tidal Volume h) Synapse i) Cardiac output j) ESR B) Answer the followings i) Write the function of Mitochondria. ii) Write the function of lymph. iii)Name different Blood Groups with Rh typing iv) What is Glomerular Filtration rate? v)Hormones secreted from Post. Pituitary. C) Differentiate between b) Mitosis & Meiosis c) Medial & Lateral d) Ventral & Dorsal a) Anterior & Posterior e) ECG & EEG 2. With a neat labelled diagram, describe the different parts of respiratory system. (7+8)Briefly write down the physiology of respiration. 3. Classify nervous system. Draw a neat Labelled diagram of Brain (L.S). Write briefly function of different parts of brain. (3+4+8)Define and classify joints. Write different movement of joint. Briefly discuss about Synovial joint. 4. (3+5+7)5. Write short note on the followings. (Any three) (5×3) a) Erythropoiesis b) Blood coagulation c) Spermatogenesis d) Physiology of pain. 6. Write short note on the followings. (Any three) (5×3) i) Spinal Cord ii) Liver iii)Pituitary gland iv) Neuromuscular junction Draw neat & clean labelled diagram (Any Three) 7. (5×3) a) Male reproductive system. b) Blood flow through heart.

d) Digestive system

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2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

PHARMACEUTICAL JURISPRUDENCE (Theory) Full Mark -80 Time -3 hrs (Answer any five questions including question No. 1) **Define the followings (ALL):** 1. (A) (1×10) i) Schedule T ii) Loan Licence iii) Denatured Alcohol iv) CLAA v) Poppy Straw vii) Landed Cost vi) Free Reserve viii) Coca Derivative ix) Narcotic Drug x) Misbranded Drugs Answer the followings (ALL) (B) (10x1)Name & place of the Laboratory where Oral Polio vaccine is tested. i) Write the penalties where no punishment is defined in breach of Medicinal & ii) Toilet (ED) Act. Define R-W Coefficient. iii) Write the penalties for obstructing a drug inspector while discharging his/her duties. iv) Write the ex officio members of PCI. v) vi) What is Ceiling price? Differentiate between the Advertisement of drugs & ordinary consumer goods vii) Differentiate between bonded & non bonded laboratory. viii) Differentiate between Prohibited & Exempted Advertisements. ix) Differentiate between wholesale & retail sale. x) 2. Write short notes on (ANY THREE): (5x3)a) Education Regulations b) Formula for calculation of retail price of drug calculation d) What are the recommendations of Drugs Enquiry Committee? c) Customs collector 3. a) Define Advertisement. (2)What kind of advertisements are exempted under drugs & Magic remedies Act? (4) b) Discuss about exemption from duty on Medicinal Preparations supplied from Bonded c) laboratory. (4) Qualification & functions of Drug Inspector (5) d) Define the Objective of The D & C Act. Discuss about the qualification of 4. (5) a) Licensing Authority. Write the Functions of DTAB. Discuss the Nominated members & Elected (10)b) members of DTAB. 5. a) Define ethics? (2+8+5)Describe briefly the essential features of code of ethics framed by PCI. b)

6. Write short notes on (ANY THREE): a) Government analysts

c)

What is the purpose of this code?

(5x3) b) Scope of pharmaceutical legislation in India

- c) Function of PCI under Pharmacy Act d) State pharmacy Council
- 7. a) Discuss on provision for import, possession & sales of poison according to poison act. (7.5x2)
 - b) Discuss the offences and punishments laid down on contravention of NDPS act ,1985?

D. Pharm Part (I)

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DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

PHARMACEUTICAL CHEMISTRY

Full Mark -80

1. Answer any six.

[6x05=30]

- a) Define Acid-Base Indicators &describe in details about the indicator theory with suitable Examples?
- b) Describe the principles involved, procedure & application of Mohr's Method?
- c) Mention the chemical structure, chemical name, uses and brand names of followings
 - i) Glibenclamide ii) Chloroquine Phosphate.
- d) What is quality control? Describe the importance of quality control?
- e) Write the detail about chemistry of aluminium hydroxide gel?
- f) Classify anti-neoplastic agents with suitable examples. Write the structure, chemical name, popular brand name of Cyclophosphamide and Fluorouracil.
- g) Classify nonsteroidal anti-inflammatory agents (NSAIDs). Write the structure, chemical name and popular brand name of i) Ibuprofen ii) Paracetamol
- 2. Answer any ten questions.

[10x03=30]

- a) Write a short note on Mouth Washes?
- b) Define Dental Fluorosis and Briefly discuss the role of Fluorides as an anti-caries agent?
- c) Define Haematinics, mention some official compounds and discuss the role of ferrous fumarate as an ideal compound?
- d) Define Sedative & Hypnotics. Mention the Chemical Structure & Chemical Name of Diazepam and Phenobarbital
- e) Write about the uses, storage & incompatibility of light kaolin?
- f) Write the structure of Metformin, Verapamil and Alprazolam?
- g) How raw materials contribute impurities to the finished product. Explain.
- h) What are the advantages of BaSo4 reagent over BaCl2 in the limit test for sulphate.
- i) Write the principle of limit test for chloride.
- j) Write a note on DOT therapy in tuberculosis.
- k) What are anti-hypertensive agents? Write the structure and chemical name of Propranolol.
- 3.Answer all questions in the following sections. Each carries ONE mark [20x1=20]

A) Define the followings:

- i) Normality ii) Conjugate Acid and Conjugate Base with Suitable Examples iii) Hemosiderosis
- iv) Oxidant and Reductant with examples v) Cathartics vi)Astringent vii) Complexometric Titration
- viii) Impurity ix) Self indicator with example x) Antidepressant

B) Write the chemical formula & Uses of followings

- i) Dapsone ii) Magaldrate iii) Potassium Permanganate iv) Bleaching powder v) Green Vitriol
- C) Write down the structure & numbering.
 - i) Purine ii) Phenothiazine iii) Imidazole iv) Pyrimidine v) Indole

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D. Pharm Part - I

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2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

Subject: PHARMACEUTICAL CHEMISTRY- I (Theory)	m· 21
Full Mark -80 (Answer any five questions including question No. 1)	Time -3 hrs
Q1. (A) Write the chemical formula & uses of the following. (i) Alum (ii) Bleaching Powder (iii) Epsom Salt (iv) Caustic Soda (v) Green Vitriol	[5X2)
(B) Define the following terms:	[5X2]
(i) Astringent & Deodorant (ii) Molarity & Normality (iii) Electrolytes &	k ORS
(iv) Bacteriostatic & Bactericidal (v) Hygroscopic & Deliquescent	
Q2. Short notes on (Any Three)	[5x3]
i)Cyanide Poisoning ii) Stages of General Anaesthesia iii) Radioisotopes iv) Primary Sta	andard
Q3. Write short notes on (Any Three)	[5x3]
(i) Dental Products (ii) Geiger-Muller counter (iii) Saline cathartics	
(iv) Combination of Antacids	
Q4. (a) Give Properties, Uses & Storage condition of the following compounds:	[2x3.5]
(i) Hydrogen peroxide(ii) Sodium thiosulphate	
(b) Write short notes on Anticaries Agent.	[4]
(c) Explain only the principle of limit test for Iron	[4]
Q5. (a) Define Antidote. Classify them with examples. Write Physical & Chemical properties	s & uses of
Sodium Thiosulphate	$[1+2+4^1/_2]$
(b) What are antioxidants? Write Physical & Chemical character & uses of Sodium Bisul	phite, $[7^{1}/_{2}]$
Q6. (a) Define limit test. Write down the principle, procedure & apparatus used in the limit	test for
Arsenic:	$[7^1/_2]$
(b) Enumerate the method of preparation, physical & chemical properties & uses of Iod	ine. Briefly
describe about different preparations of Iodine.	$[4^1/_2+3]$
Q7. (a) Explain Bronsted-Lowry & Lewi's Acid – Base Theory.	[3+3]
(b) What do you mean by Buffer Solutions & Buffer Capacity & Write a note on applic	cation of
Buffers in Pharmacy.	[5]
(c) Describe about tests for purity.	[4]

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Subject: PHARMACEUTICAL CHEMISTRY- II (Theory) Full Mark -80 Time -3 hrs (Answer any five questions including question No. 1) Q1. A) Write the structure of the heterocyclic ring with numbering & give suitable example [10x1]a) Pyrrolidine b) Aziridine c) Quinoline d) Acridine e) Pyrazine f) Pyridine g) Pyrimidine h) Coumarin i) Indole j) Piperidine B) Write the chemical structure & use of the following medicinal agents [10x1]b) Procaine c) Phenformin d) Propranolol a) Aspirin e) PAS f) Proflavine h) Isoniazid i) Isoprenaline j) Chlorpropamide g) Chlorocresol Q2. Write short notes on any three. [5x3](i) Steroidal drugs ii) Local anaesthetics (iii) Antiseptics and Disinfectants (iv)Anthelmintic Drugs Q3. A) Define antibiotics? Classify β -lactam antibiotics with suitable examples. [2+3]B) Write the structure, nomenclature, popular brand name, and uses of [5x2]b) Benzyl Penicillin a) Ampicillin Q4. A) Define and classify antihistaminic drugs? [2+3]B) Write the chemical structure, nomenclature, popular brand name &uses of following: [5x2] (i) Diphenhydramine (ii) Chlorpheniramine Q5. Write the structure, chemical name, and uses of following medicinal agents [5x3](a) A non-opioid analgesic. (b) A tricyclic antidepressant. (c) A non-heterocyclic antihistamine. (d) A pyrimidine containing sedative and hypnotic e) A sulfone containing anti-leprotic drug. Q6. A) Define anticholinergic drugs? Classify them with suitable example. [1+2]B) Write the structure, nomenclature, popular brand name and uses of the following: [4x3]ii) Propantheline iii) Biperiden (i) Atropine Q7. Write short notes on any three. [5x10] Diagnostic agents b) Anticoagulants c) Stages of Anaesthesia d) Analeptics

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2022(I)

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Subject: PHARMACEUTICS-II (Theory)			
Full Mark -80	Time -3 hrs		
(Answer any five questions including question No. 1)			
Q1. (A) Define the following terms:	[2x5]		
i) Tachyphylaxis (ii) Posology (iii) Displacement value (iv) Subscription (v) Ta	blet triturate		
(B) Translate the following Latin terms into English.	[1x6]		
(i) Signa (ii) Unguentum (iii) Capiendus (iv) Post Cibo (v) Cochlear minimum(vi) Omni Mane		
(C)Answer the followings	[2x2]		
(i) Differentiate between suppositories and pessaries.			
(ii) Calculate the dose for a 9 months old infant when the adult dose of a dru	ag is 150mg.		
Q2. Write notes on:	[7.5x2=15]		
(a)Therapeutic incompatibility			
(b)Sources of errors in Prescription			
Q3. What are mixtures? Classify different types of mixtures. Describe the methods of dispensing of mixture containing. (a) Indiffusible solids (b) Precipitate forming liquids.			
 Q4. Define the term Eye Drop. Describe in brief the formulations of Eye Drop. What are the various adjuvants used in preparation of Eye Drop? [2+9+4] Q5. Define prescription. Describe the parts of a prescription with clean labelled diagram. [2+10+3] Q6. Define the term 'parenteral products'. Discuss in brief the various tests required to be performed for evaluation of parenteral preparations. [2+13] 			
Q7. Write notes on (Any Three):	[5x3]		
(a) Stability of suspension.			
(b) Facial cosmetics.			
(c) Alkaloidal incompatibility.			
(d) Formulation of Shampoo			

glass container.

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[5+10=15]

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Full Mark -80	Subject: PHARM		•	Time -3 hrs
Q1. (A)Define following i) Isotonic solution	•	iii) Capping	iv) Meta filter	[5x2=10] x) Pasteurization.
(B) Differentiate the a) Exotoxin and End	O			[5x2=10]
b) Double maceration	on and Triple macera	ntion		
c) Hard gelatine cap	sule and soft gelatin	e capsule		
d) Syrups and Elixii	rs .			
e) Emulsion & susp	ension			
organized & unorg Q3. Define sterilization method? Write in Q4. Define size reducti short note on Ham Q5. Define vaccines & preparation of two	toxoids. Describe the bacterial vaccines.	the preparation at sterilization is eat sterilization different factors are types of immu	of tincture. more effective the method. affecting the size	[2+13=15] nan dry heat [2+3+10=15] the reduction. Write [2+13=15] the method of [2+4+9=15]
Q7. What are differen	t types of containers	s commonly use	d in Pharmacy? V	Write in brief about

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PHARMACOGNOSY (Theory)

Full Mark -80 Time -3 hrs

PART-A

Q1. Long answer type questions (Answer 6 out of 7)

 $[6 \times 5 = 30]$

- (i) Write about quantitative microscopical evaluation.
- (ii) Define surgical dressings. Write notes on Cotton.
- (iii) Write a note on Ergot.
- (iv) Write in detail about Soxhlet extraction method.
- (v) Write details about the Phytochemical test used for glycosides and alkaloids.
- (vi) Explain adulteration of crude drugs with suitable examples.
- (vii) What do you mean by herbal formulation? Classify it with example. Give notes on Classical Ayurvedic formulations.

PART-B

Q2. Short answer type questions (Answer 10 out of 11)

 $[10 \times 3 = 30]$

- (i) Write a short note on Umbelliferous fruits.
- (ii) Define antioxidants with examples.
- (iii) Write the biological source, chemical constituents& uses of Neem.
- (iv) Explain about the biological role of Omega-3 fatty acid.
- (v) Write details on scope of Pharmacognosy.
- (vi) Write the Biological source and chemical constituents of Gokhru and Punarnava.
- (vii) Write down methods of preparation of Lehya.
- (viii) Define stomatal number and stomatal index.
- (ix) Differentiate between pale catechu and black catechu.
- (x) Differentiate between Organised and Unorganised drugs?
- (xi) Write the biological source, chemical constituents &commercial preparations of Sandal Wood Oil

PART-C

Q3: Objective type (Answer all from all the sections). Each carries ONE mark $[20 \times 1 = 20]$

A) Define the followings:

- a) Tannins 2. Oleogumresin.3. Palisade ratio.4. Cosmeceuticals.5. Crude Drugs
- B) Write down the biological source of
- a. Squill b. Guggul c. Ispaghula d. Senna e. Rauwolfia f. Myrrh g. Ashwagandha. h. castor oil i. Aloe j. Artemisia

C) Answer the following

- a) What are the chemical constituents of Fennel.?
- b) What is gutica?
- c) What is chemical test for tropane alkaloids?
- d) Write basic principle of unani system of Medicine.
- e) What is Chemotaxonomy?

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2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

		PH	ARMACOGNO	SY-I (Theory)	
Full	Mark -80	(Anguar anu	fina quastions in	cluding question No.	Time -3 hrs
Q	1. A) Write	,	_	of following crude dr	· ·
	a) Guggulf) Digitalis	b) Nux-vomio g) Dioscorea	ca c) Amla h) Acon	,	e) Ipecacuanhaj) Cannabis
	B) Write t	he important use	s of the followin	g crude drugs:	[10x1]
	(i) Vasaka (vi) Clove	(ii) Vinca (vii) Curcuma	(iii) Black Pepp (viii) Tulsi	er (iv) Arjuna (ix) Colchicu	(v)Honey m (x) Agar
Q2.	Answer an	y three: -			[5x3]
(a)	Morpholog	gical classification	of crude drugs.	(b)Rege	enerated fibre
c)	Classificat	ion of terpenoids		d) Clas	sification of resins
	Define Glyco chemical Answer any	constituents, use		e nervous system. Writes anatomical study of	ite the biological sources, Datura [2+3+10] [5x3]
(a)	Source, pro	eparation, identific	cation & uses of S	Silk b) Lyco	opodium spare method
(c)	Classificat	ion of Pharmaceut	cical Aids.	(d)Anat	tomical studies of Clove
Q5.	Write notes o	n (any three):			[5x3]
	(a) Gold b	eater skin test	b) Colle	ction and preparation	of Opium
	(c) Bornt	rager test	d) Kelle	r-Kiliani test	
Q6.	(Any three)	catechu (b) Sh		its and uses of the follo	owing crude drug [5x3]
Q7.	(i) Differentia	ate between raw co	otton & absorbabl	le cotton.	[2+6+7]
	(ii) Write the		e, chemical const	tituents and uses alon	g with gross anatomical

- (iii) Define Resin with suitable examples. Write the Official source, chemical constituents, along with collection & preparation of Senna.

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2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

	Subject: PHARMACOLOGY & TOXICOLOGY (Theory)
Full N	Time -3 hrs (Answer any five questions including question No. 1)
1.	A) Define the following terms: a) Haematinics b) Myasthenia gravis c) Neuroleptics d) Glaucoma e) Uricosuric agent f) Hypertensive crisis g) Teratogenic Effect h) Anaemia i) Broad spectrum antibiotics j) Zollinger Ellison Syndrome
2.	B) Define the followings: i)Receptor ii) Antagonists iii) Tolerance iv) Therapeutic Index v)Potentiation vi) Bio-availability vii) Enzyme induction viii) Tachyphylaxis ix)Sequential pill x) Biological Lag Define Diuretics, Classify them. Describe the mechanism of action, pharmacological actions,
	adverse effects& uses of Loop diuretics. (2+3+10)
3.	Define and classify local anaesthetics. Explain the mechanism of action, pharmacological action, adverse effect and uses of local anaesthetics. $(2+3+3+3+2+2)$
4.	a) Classify drugs used in Angina Pectoris. Give mode of action and adverse effect of Vasodilators. b) Write short note on 5-Hydroxytryptamine. c) Define autacoids and explain triple response. 5 (1 + 3)
5.	Write short notes on any three: a) Calcium channel blockers d) Antitussive and expectorants b) MAO inhibitors c) Oral hypolipemic agents e) Stages of general anaesthesia
6.	Define and classify opioid analgesics. Discuss the pharmacological action, uses and adverse effect of Morphine. (2+3+5+2+3)
7.	Define and classify antidepressant drugs. Discuss the mechanism of action, pharmacological action, adverse effect of Tricyclic antidepressant. (2+4+3+3+3)

2022(I)

04/02/2023

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

SOCIAL PHARMACY (Theory)

Full Mark -80 Time -3 Hrs.

1. **Answer any 6 out of 7**

 (6×5)

- a) What is SARS & its mode of transmission, Symptoms & treatment, Role of Pharmacist in prevention of the disease.
- b) Write about the primary causes of air pollution. Describe the solid waste disposal process in brief
- c) Discuss about RCH Programme and its major interventions in Phase-1.
- d) Describe briefly on drug abuse & misuse.
- e) Write the sources, functions & deficiency diseases due to fat soluble vitamin.
- f) Describe briefly about causative agent, epidemiology, clinical presentation & prevention of poliomyelitis.
- g) Write a detail note on role of pharmacist in Disaster management.

2. Answer any 10 out of 11

(10x3)

- a) Define social pharmacy. Explain briefly about the role of pharmacist in India's ongoing National Health Programme.
- b) Define Pharmacoeconomics & explain its importance
- c) Define the term "balanced diet" & give an overview of micronutrients.
- d) Discuss about the Environmental pollution due to pharmaceuticals.
- e) What is Artificial ripening, its effects, advantages and disadvantages.
- f) Write a short note on sewage treatments.
- g) What are the different stages of the demography cycle?
- h) Write the causative agent, epidemiology &clinical presentation of Malaria.
- i) Write down the function of Mid-day meal programme
- j) What are the STDs. Focus on its epidemiological Factors
- k) What are genetically modified foods? Describe the negative effects of it.

3. A) Differentiate the followings

(20x1)

i) Immunity and immunization ii) Macronutrients and Micronutrient iii) Epidemic & Pandemic iv) Marasmus & Kwashiorkor v) Multibacillary & Paucibacillary Leprosy

B) Answer the followings:

- i)Write down the beneficial Effects of Fibre.
- ii) Modes of Transmission of HIV/AIDS.
- iii)Formulations of Mala-D Tabs.
- iv)Write down the clinical presentation of Tuberculosis.
- v)What is Health Maintenance Organisation.

C) Define the following:

- i) Crude death rate ii) Epidemiology iii) Weaning iv) Incubation period
- v) Water Pollution vi) Nosocomial infection vii) Nutraceuticals viii) Antisera
- ix) Psychosocial pharmacy x) Health according to WHO
