01/05/2023

D. Pharm Part - II

E. R. 1991

2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE ANSWER THE QUESTIONS SERIALLY AND CONTINUOUSLY

Subject: PHARMACEUTICAL JURISPRUDENCE (Theory)					
Full Mark -80 (Answer any five questions including question No. 1) Time -3 Hrs.					
1.	Define the following				
	a)Alcohol	b) Bonded Manufactory	c) Ceiling price		
	d) Consumer	e) Cosmetic	f) Chemist & druggist	t	
	g) Dealer		i) Free Reserve		
	j) Govt.Analyst	k) Schedule H	l) Illicit traffic		
	m) Magic remedies	n) Poison	o) Repacking licence		
	p) RMP	-	r) Spurious drugs		
	s) Schedule-G	t) Third party			
2.	a) Discuss in detail al	bout illicit traffic according to NDPS	Act Ordinance1988.	(7.5)	
	b) Write down a note	on Constitution &functions of Joint S	tate Pharmacy Counci	1 (7.5)	
3.	a) Describe the various	us aspects & provisions for termination	n of Pregnancies	(8)	
	according to Medical Termination of Pregnancy Act.				
	b) Write the difference	ce between Bonded & Non Bonded Lal	boratory	(7)	
4.	a)How PCI is constitution	uted?		(7)	
	b) What are the func	tions of the PCI under Pharmacy Act 1	948?	(8)	
5.	a) What do you under	rstand by Registered Pharmacist?		(5)	
	b)What qualification	is requiredbya person forfirst & subsec	quent Registration?(5)		
	b) Discuss the ethics	that pharmacist should observe in relat	ion to his profession.	(5)	
6.	a)Define the Wholesa	ale and Retail sale?		(3)	
	B) Discuss the condit	tions for the retail and wholesale of Dr	ug.	(7)	
	c) Formula for calcul	ation of retail price drug calculation.		(5)	
7.	Write short note on	ANY THREE		(3x5)	
	a) Restricted licences	3.			
	b) Recommendation	of Drug Enquiry Committee.			
	c) Exempted Adverti	sement.			
	d) Education Regulat	ions.			
	e) Functions of Drug	Inspector			

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2022(II)

DO NOT WRITE ANYTHING ON YOUR OUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the question serially and continuously

Subject: SOCIAL PHARMACY (Theory)

Full Mark -80 Time -3 hrs

1. **Answer any six questions:**

 (6×5)

- a) Briefly describe about water soluble vitamins.
- b) Describe about National AIDS Control Programme.
- c) Give an account of nutritive & calorific values of various food supplements.
- d) Describe various methods of family planning.
- e) Write the organization and function of directorate general of health services.
- f) Define Health according to WHO. Enumerate the determinants of health.
- g) Write about the public and private healthcare systems in India.

2. Answer any ten questions:

 (10×3)

- a) Describe the ill effects of junk foods.
- b) Define the term incubation period & write the epidemiology of whooping cough.
- c) What is EPI & define its objectives?
- d) Write the function of community health centres (CHCs).
- e) Write a note on "Fortification of food".
- f) Define the food poisoning and their harmful effects on the health.
- g) Write the causative agents, epidemiology &clinical features of Filaria.
- h) Write the Scope of microbiology.
- i) Define& classify intrauterine contraceptive devices (IUCD) with example.
- j) Enumerate the strategies for elimination of leprosy from India.
- k) What are the beneficial effects of breast feeding for baby?

3. (A) Differentiate the followings:

 (20×1)

- a) Mortality and morbidity
- b) Drug addiction & drug abuse d) SARS and MERS
- c) Aerobic & Anaerobic e) Vaccine and Toxoids.

(B) Define the following:

- a) Immunoglobulin
- d) Detoxification
- g) Marasmus
- j) Syphilis
- m) Swine flu

- b) Noise Pollution
- c) Occupational disease f) Epidemiology
- e) Colostrum

h) Goitre

- i) FSSAI
- k) Mission Indradhanush
- 1) e-cigarettes
- n) Macronutrients
- o) Weaning

02/05/2023

D. Pharm Part - I

E. R. 1991

2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the questions serially and continuously

Subject: HUMAN EDUCATION & COMMUNITY PHARMACY (Theory)

Full N	Mark -80 (Answei	r any five questions including que	stion No. 1)	Т	ime -3 Hrs.
1.	A) Define the followings:				(1x10)
	i) Megaloblastic anaemia	ii) Chlorine demand	iii) Pandemic	;	
	iv) Fracture	v) sewage	vi) First aid		
	vii) Burns	viii) Immunization Schedule	ix) Iodine def	ïciency	
	x) Acute myocardial infraction	on.			
	B) Define the following abb	previations			(1x10)
	i) MMR ii) ATS	iii) MDT	iv) ESR	v) BCG	(- /
	vi) IHD vii) HBV	viii) UNICEF	ix) MTP	x) OPV	
2.	(a) Briefly discuss various st demerits of each.(b) Draw a neat diagram of a	aining technique for bacteria, ment	tioning merits a	nd	(9+6)
3.	•	the vitamins with suitable example ments of fat soluble vitamins.	es. Write the sou	arce,	(1+2+12)
4.	Define Epidemiology. Write	down the scope, uses and analytic	al method of Ep	oidemiology.	(2+4+4+5)
5.	What is family planning? Cla	assify different methods of family	planning. Discu	ss about barr	ier
	contraceptives.				(2+5+8)
6.	(a) What is Immunity?.				(2)
	(b)Define Active & Passive	Immunity.			(4)
	(c) Write the disinfection pro	ocedure of faeces & urine, sputum,	linen, instrume	nts & dead b	ody. (9)
7.	Write notes on followings:	(ANY THREE)			(3×5)
	(a) Mode of transmission &	prevention measures of Tuberculos	sis.		
	(b) Solid waste disposal & co	ontrol.			
	(c) Balanced diet.				
	(d)Sanitary well				

D. Pharm Part - II

E. R. 1991

2022(II)

03/05/2023

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the question serially and continuously

	Allswei	ne question seria	iny and con	Immuusiy	
Full N	Mark -80	TORE & BUSINESS I			Time -3 hrs
1.	Define the followings: a) Safety Stock d) Petty Cash Book g) Assets j) Import trade m) Scrap p) Trade credit s) Insurance	b) Bincard e) Overdraft h) Bad Debts k) Free samples n) Industrial Bank q) Private company t) Window display	c) Partnership f) Accounting i) Commerce l) Mail order o) Working or r) Co-operati	business capital	(1x20)
2.	What is recruitment? What Write the various steps invo				(3+4+8)
3.	Differentiate between the a) Liquidity ratios & Solver c) Journal & Ledger	ncy ratios b) Tri	al balance and	balance sheet sales promotion	(5x3)
4.	a) Define Book-keeping. Wb) Explain various media &	_	_	book keeping?	(2+5) (8)
5.	Write short notes on the fo	ollowing (Any Three)			(5x3)
	a) Joint Stock Company	b) Salesmans	hip	c) Window Di	splay
	d) ABC Analysis	e) Accounting	g Error		
6.	a) Define the term inventoryb) What are the various formc) What are the needs & obj	ns in which inventories		agement?	(2) (5) (8)
7.	Journalise the following trana) Pramod invest Rs.50, 000 b) He buys machine of Rs.2 c) He buys goods of Rs.10, d) He buys a building for Rs.6 e) He pays Rs.8, 000/- to Ms.6 He pays Rs.3, 000/- to Ms.9 He pays Rs.7, 000/- to Ms.6 h) The interest paid on cash	0/- in cash 0, 000/- on credit from 000/- on credit from M s.80, 000/- on credit fro r Saroj r Ram fr Suresh	Mr.Saroj r Suresh	d ledger.	(15)

i) The cash received from sale of goods Rs.9,500/-

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2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the questions serially and continuously

	Subject: BIO-CHEM	IISTRY & CLINICA	L PATHOLOGY (Theory)	
Full M	ark -80 (Answer an	ıy five questions includi	ng auestion No. 1)	Time -3 Hrs.
1.	A) Define the following term	-	7	(1x20)
	 i) Ketone bodies iv) Positive nitrogen balance vii) Hyper vitaminosis D x) Lipoprotein xiii) ESR xvi) Rancidity xix) SGPT 	ii) Bilirubin	iii) Triglycerides vi) Electron transport ix) Atherosclerosis xii) Polycythaemia xv) Macromolecules xviii) HDL	, ,
2.	Define Glycolysis & describe energy calculation.	e the steps involved in	Embden Meyerhof Pathway w	vith its (1+9+5)
3.	What are the normal & abnor of urine with their clinical sign		ne? Enumerate the abnormal of	constituents (5+10)
4.	Describe the role of minerals	(any five) in our life p	process.	(5x3)
5.6.	b) Briefly describe different (Qualitative tests for Ca	ent chemical reactions of Monorbohydrates. ies and specificity of enzymes	(1+4+5) (5)
7.	Write short notes any THR i) Urea Cycle iii) Biological functions of Pr v) Functions of blood		ii) Sickle Cell Anaemia iv) β oxidation of Fatty acid	(5x3)

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2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE ANSWER THE QUESTIONS SERIALLY AND CONTINUOUSLY

Subject: HOSPITAL & CLINICAL PHARMACY (Theory) Full Mark -80 (Answer any five questions including question No. 1)					Time -3 Hrs.
1.	(A) Define the following terms:				(10x1)
	a) Anaphylaxis	b) Ryle's Tul	be		
	c) Vial	d)Drug intera	action		
	e) In-patient	f) Bioequival	ence		
	g)Surgical equipment	h) Clinical Pl	narmacy		
	i) Satellite Pharmacy	j) Sterilizatio	n		
	(B) Define the following abbreviat	tions:			(10x1)
	a) CHC b) DIB	c) DDS	d) HFS	e) HEPA	
	f) GABA g) ADME	h) MRI	i) LVP	j) IDDM	
2.	a) Define and classify hospital.				(3+2)
	b) Briefly describe the functions of a	a modern hospi	ital.		(5)
	c) Write the location & layout of our	tpatient dispen	sing along with	figure.	(5)
3.	a) Define hospital formulary.				(3)
	b) Describe the functions and object	ives of hospita	l pharmacy.		(6)
	c) Write a note on Drug Distribution				(6)
4.	a) Factors affecting bioavailability.				(5)
	b) Role of PTC in drug safety.				(5)
	c)Write a note on Teratogenicity.				(5)
5.	a) Write the symptoms and treatmen	nt of Arsenic po	oisoning.		(5)
	b) Write the manifestation & pathop	hysiology of C	CHF.		(5)
	c)Pathophysiology & manifestation	of Type II Dia	betes mellitus.		(5)
6.	a) Define Clinical Pharmacy				(3)
	b) Discuss the role of Pharmacist in	a health care to	eam.		(6)
	c) Discuss the role of computer in Pl	harmacy.			(6)
7.	Write notes on (Any three)				(5x3)
	a) Patient Counselling				
	b) Drug& Food interaction.				
	c) Bed side Pharmacy.				
	d) Pathophysiology & manifestation	of Cerebral M	Ialaria.		

e) Pathophysiology & manifestation of Pulmonary Tuberculosis.

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2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE ANSWER THE QUESTION SERIALLY AND CONTINUOUSLY

Subject: PHARMACEUTICS (Theory)

Full Mark -80 Time -3 hrs

(Answer any five questions including question No. 1)

1. Long type question (answer any six)

 (6×5)

- a) Define drying. Explain details about freeze dryer with neat and clean diagram.
- b) Discuss the advantages and disadvantages of plastic as packaging materials
- c) Explain principle, construction and working condition of cyclone separator.
- d) What is Toxoid? Write the general methods of preparation of Toxoids.
- e) What is extraction? Write down the details about soxhlation
- f) Explain details about continuous hot percolation method with neat and clean diagram.
- g) Classify the novel drug delivery systems (NDDS) with examples. Write the advantages of novel drug delivery systems.

2. Short type question (answer any ten)

 (10×3)

- a) Define preservatives. Mention various types of preservatives used in pharmaceutical preparations.
- b) Write short note on Sustained release tablets.
- c) Define of the followings:
 - i) Creams ii) Vaccines iii) Emulsion
- d) Write any three polymers used for film and enteric coated tablets.
- e) Write different excipients used for processing of capsule with examples.
- f) Give advantages, disadvantages and applications of sterilization by ionizing radiation.
- g) Define lamination problem with its remedy.
- h) What are the differences between syrup and elixir?
- i) Write details about extra pharmacopoeia.
- j) Write & explain Darcy's law.
- k) Write notes on Erythrocytes as a drug carrier.

3. (A) Answer the followings. (Answer All)

 (20×1)

- i) Give one major differences between disintegration and dissolution.
- ii) Give one difference between compressed tablet and moulded tablet.
- iii) Write about sterilization of plastic containers.
- iv) Classify acquired immunity
- v) Write disadvantages of Glass

(B) Define the followings:

i) Capsule ii) Pharmaceutical aid iii) Hygroscopic iv) Antitoxin v) Autoclave vi) Nano emulsion vii) Nasal drop viii) Trituration ix) Mixing x) Exsiccation xi) Plasticiser xii) Creaming

xiii) Paste xiv) Vulcanising Agent xv) Sintered Glass

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2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO.
QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE
ANSWER THE QUESTION SERIALLY AND CONTINUOUSLY

	MUSHER THE QUESTION SERIMENT MAD CONTINUOUSE.	I			
Full M	Subject: PHARMACEUTICS-I (Theory) Full Mark -80 Time -3 hrs				
	(Answer any five questions including question No. 1)				
1.	A) Define the followings:	(1 x 8)			
	i) Mottling ii) Marc iii) Gargle iv) Menstrum v) Implants vi) Enem	as			
	vii) Prodrug viii) Filter Aids				
	(B) Differentiate between the following	(1 x 10)			
	i) Dusting power and insufflations ii) Conduction & Convection				
	iii) Bacteriostatic & Bactericidal iv) Spray drying & Freeze drying				
	v) Syrup & Elixir vi)Toxoid & Vaccine				
	vii) Maceration & infusion viii) Aristas & Asavas				
	ix)Lotion & Liniment x)Distillation & Evaporation				
	(C) Find the volume of 80% alcohol required to prepare 600ml of 50% alcohol?	(2)			
2.	Define distillation. What are the types of distillation. Give a detail on fractional	(3+3+9)			
	distillation	(= - =)			
3.	Define Homogenization. Discuss the principle, construction, function of two	(1+6+8)			
	equipments you have studied which are used in Homogenization.	(2.0.0)			
	equipments you have studied which are used in Homogenization.				
4.	Write notes on:	(5×3)			
	(a) Human normal immunoglobulin (b) Rabies vaccine (c) Tuberculin Test	(C A C)			
	(a) Human normal minimographism (b) Rubies vaccine (c) Tubercum Test				
5.	Explain in detail:	$(7^{1}/_{2} \times 2)$			
<i>J</i> .	(a) Factors affecting size reduction (b) Factors affecting rate of filtration	(1 12 X 2)			
	(a) I actors affecting size reduction (b) I actors affecting face of infration				
6.	a) Define aerosols with its advantages and disadvantages.	(5+6+4)			
0.	b) Explain various parts of aerosol container with diagram	(3+0+4)			
	c) Write down the process of filling of aerosol products.				
	c) write down the process of fining of derosof products.				
7	Define Extraction? What are different processes of extraction? Describe in Jets.	about			
7.	Define Extraction? What are different processes of extraction? Describe in detail				
	continuous hot percolation method	(2+3+10)			

ODISHA STATE BOARD OF PHARMACY 25/04/2023

D. Pharm Part - I

E. R. 2020

2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the questions serially and continuously

Subject: PHARMACHEMISTRY (Theory)

Full Mark -80 Time -3 hrs

1. Answer any six questions:

 (6×5)

- a) Define and classify anti-malarial agents. Write down the structure, chemical name, and popular brand names of Chloroquine.
- b) Define impurities and describe the various sources of impurity.
- c) Define and classify diuretics. Write down the structure, chemical name and popular brand names of Furosemide .
- d) Define and classify Antacids .Discuss why the combination of antacids is so popular Now-a-days
- e) Write in detail about the basic principle of Complexometric titration? Illustrate with examples.
- f) Classify NonSteroidal Anti-inflammatory Drugs(NSAIDs) with suitable example, Write the structure, chemical name & Popular brand namesof IBUPROFEN & ASPIRIN
- g) Classify sympathomimetic agents with examples. Write the structure, chemical name and uses of (a) Dopamine (b) Naphazoline.

2. **Answer any ten questions:**

 (10×3)

- a) Write the Principle involved in Limit test for Arsenic.
- b) Write down the Advantages & Limitations of Lewis theory of acids and bases.
- c) Distinguish between Accuracy & Precision.
- d) Mention the structure, IUPAC name & popular brand name of INH & Pretomanid.
- e) Define cholinergicdrugs. Mention the structure of Acetyl choline & Neostigmine?
- f) Define Antibiotics. Write the structure, use & popular brand name of Amoxycillin.
- g) What do you mean by Anticonvulsants? Write the structure, use & brand name of Valproic acid.
- h)Write three medicinal agents with structure, each containing three heterocyclic ring.
- i) Write down the Storage condition & uses of nitrous oxide.
- i)Write down the stages of anaesthesia.
- k) Classify antineoplastic agents with suitable example.

3. (A) Write down the structure and uses of the following compounds

 (1×10)

- i) Paracetamol
- ii) Pheniramine
- iii) Phenobarbitone
- iv) Haloperidol

- v) Dapsone
- vi) Sulfacetamide
- vii) Acyclovir
- viii) Phenytoin

- ix) Propranolol
- x) Chlorpromazine
- (B) Write down the structure, numbering and name of one drug each for (1 x5) the following heterocyclic rings.
- i) Isoquinoline ii) Pteridine iii) Piperazine iv) Thiophene v) Pyridazine

(C)Define the following:

i) Molarityii) Precipitation iii) Significant figure iv) Gross errorv) Conjugate base (1 x 5)

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D. Pharm Part - I

E. R. 1991

2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the questions serially and continuously

Subject: PHARMACHEMISTRY-I (Theory) Full Mark -80 (Answer any five questions including question No.1)			
1.	A) Write the chemical formula of the followings: a)Butter of Zinc b)Slaked Lime c)Soap stone e)Quick Silver f) Muriatic Acid g) Tartar Emetic h) Rochelle salt i)Baking Soda j)Sodium borate	(1 x10)	
2.	B) Define the following terms: i) Protective ii) Deliquescent iii) Antioxidant iv) Expectorants v) Acidosis vi) Purgatives vii) Antidote viii) Monograph ix) Anticaries agent x) Replacement therapy	(1 x 10) (2+13)	
	What do you mean by term quality control of drugs? Briefly discuss on various m	ethods	
3.	adopted for controlling the quality of drugs a) Explain G.M. counter with a neat labelled diagram. b) Write a note on radio opaque substance. c) Short note on biological effects of radiation.	(5) (5) (5)	
4.	What do you mean by Topical Agent? Classify them with suitable example. Write chemical formula, synonyms& uses of any three important antimicrobial agent[2+		
5.	Explain about Arrhenius theory, Bronsted lowry theory, and Lewis theory with Limitations. Write the preparation & uses of HCL.	(4+4+4+3)	
6.	Answer all: a) Give the principle involved in limit test for Arsenic b) Draw & label the figure of arsenic apparatus c) Give the principle involved in limit test for Iron d) Give the principle involved in limit test for chloride e) Write the different sources of impurities	(5x3)	
7.	Write short notes on (Any Three) a) ORS b) Pharmaceutical gases as inhalants. c) Application of Buffer d) Test for purity	(3 x 5)	

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2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the questions serially and continuously

Subject: PHARMACOGNOSY (Theory)

Full Mark -80 Time -3 hrs.

(Answer any five questions including question No.1)

1. (A) Write the biological source of the following crude drugs: (10x1=10)

i. Cinnamon ii. Tragacanth iii. Nut-meg iv. Crow-fig v. Mentha Oil vi. Ephedra vii. Shark liver oil viii. Castor oil

ix. Punarnava x) Rhubarb

(B) Write the important uses of following crude drugs: (10x1=10)

i)Guggul ii)Digitalis iii)Coriander iv)Gymnema sylvestre

v)Opium vi)Pterocarpus vii)Myrrh viii)Colchium

ix)Senna x)Vinca

2. Write short notes on (any three)

(3x5=15)

- i. Define deterioration. Write about on method of adulteration of crude drug.
- ii. Taxonomical & Chemical classification of crude drug.
- iii. History and scope of Pharmacognosy
- iv. Classification of Glycosides.
- 3. **Answer any THREE**

(3x5=15)

- i. Define fibre. Classify it with suitable examples. Write about the preparation of silk.
- ii. Physical method of Evaluation.
- iii. Lycopodium spore method.
- iv.Cultivation & collection of rouwolfia.
- 4. Define alkaloid. Write the biological source, chemical constituents, identification test along with life cycle of Ergot. (1+2+2+8)
- 5. **Answer any FIVE**

(5x3=15)

- i. Mayer's test & Dragendorff's test ii. Goldbeater's skin test iii. KellerKillani test iv. Liebermann burchard test v. Shinoda test vi. Modified Borntrager's test
- 6. Write the **synonym**, **Biological source**, **Chemical constituent** & **uses** of the following crude drugs. (5x3=15)
 - i. Ginger ii. Beeswax iii. Liquorice iv. Benzoin v. Gum Acacia
- 7. **Answer all five questions**

(5x3=15)

- i. Differentiate between organised & unorganised drug.
- ii. Differentiate between raw cotton &absorbable cotton.
- iii Cultivation & collection of Senna.
- iv. Classification of Resin
- v. Different types of Tannin.

E. R. 2020

2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the questions serially and continuously

Subject: PHARMACOGNOSY-I (Theory)

Full Mark -80 Time -3 hrs

1. Long answer type (Answer any Six)

(6x5=30)

- i. Describe chemical classification of crude drug with suitable examples.
- ii. Write down biological source, chemical constituents, marketed preparation, therapeutic & cosmetic uses of olive oil.
- iii. Write down the methods of preparation of asava formulation.
- iv. Describe in detail about the pharmacognostic study of wool.
- v. Define the term Nutraceuticals & classify it. Write note on Spirulina.
- vi. Discuss about the role of medicinal & aromatic plants in national economy & their export potential.
- vii. Write down the method of preparation of Bhasma in Ayurvedic formulation.

2. Short answers type questions (Answer 10 out of 11)

(10x3=30)

- i. Write short notes on Carminative & G.I. regulators.
- ii. Write brief note on Pharmaceutical Aids.
- iii. Write short notes on Phytosomes.
- iv. Discuss about the herbal cosmetics.
- v. What are the basic principles involve in the Ayurveda?
- vi. Write about the chemical test for anthraquinone glycoside.
- vii. What is refractive index?
- viii. Define astringents & write down the biological source of Black catechu.
- ix. Write details in scope of Pharmacognosy.
- x. Write down the basic principles of Siddha system of medicine.
- xi. What are prebiotics & probiotics?

3. Objective type (Answer all from all the sections). Each carries One mark (20x1=20)

- A. Define the followings:
 - a. Unani b. Resin c. Regenerated fibr
- c. Regenerated fibre d. Dosha in Ayurveda e. Lehya
- B. Write down the biological source of
 - a. Ipecac b. Ishapghol c. Fennel d. Punarnava e. Arjuna
 - f. Colchicum g.Cinchona h. Shatavari i. Papaya j. Datura
- C. Answer the following
 - a. What is the basis of morphological classification of Plant Kingdom.
 - b. Define adulteration of crude drugs.
 - c. What is composition of Kapha as per Ayurveda?
 - d. What is enfleurage?
 - e. What is therapeutic use of Gymnema?

D. Pharm Part - II

b) Metronidazolec) Valproic Acidd) Salbutamole)Griseofulvin

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28/04/2023 2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE ANSWER THE QUESTIONS SERIALLY AND CONTINUOUSLY

Full M	Subject: PHARMACOLOGY & TOXICOLOGY (Theory) Full Mark -80 Time -3 hrs				
	(A)	nswer any five questions i	ncluding question No. 1)		
1.	Define the following i) Agonist v) Haemolysis ix) Prodrug xiii) Super infection xvii) Anaphylaxis	ii) Therapeutic Index vi) Teratogenic effect x) Chemotherapy xiv) Facilitated diffusion xviii) Pharmacokinetic	iii) Receptor vii) Toxicology xi) Plasma half-life xv) Drug dependence xix) Autacoid	(1 x 20) iv) Antimetabolite viii) Tolerance xii) Pinocytosis xvi) Affinity xx) Synergism	
2.		tic agents with suitable exa e a detail note on Penicillin	ample. Differentiate between ba 1.	cteriostatic and (3+4+8)	
3.	their advantages & disa		te a note on Oral & Parenteral r	oute with (4+6) (5)	
4.			suitable examples. Describe in al action and uses of atropine.	(3+4+8)	
5.	b) Pharmacological act		reactions of furosemide. eactions of chlorpromazine. reactions of Calcium channel B	(5) (5) locker (5)	
6.	Write short note on an i) Proton Pump Inhibito ii) Anti Leprotic Drugs iii)Oral Hypoglycaemio iv) First Line Antituber v) Drug Treatment of b	ors c Drug ccular Drugs		(3 x 5)	
7.	Write short note on an a) Chloroquine	ny three:		(3 x 5)	

E. R. 2020

2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE ANSWER THE QUESTIONS SERIALLY AND CONTINUOUSLY

Subject: HUMAN ANATOMY & PHYSIOLOGY (Theory)

Full Mark -80 Time -3 hrs

1. Answer any six out of seven

 (6×5)

- Draw a neat labelled diagram of male reproductive system. Write a short note on a) composition of semen.
- Define endocrine gland. Briefly discuss about the hormone secreted from the pituitary b) gland.
- Draw a neat & labelled diagram of urinary system and describe briefly about the c) formation of urine.
- d) Define digestion. Describe different parts of digestive system with their function.
- Write down different constituents of blood .Discuss about the function of WBC. e)
- f) Draw a neat labelled diagram of skin and it's functions.
- Classify nervous system. Briefly discuss about different parts of brain. g)

2. Answer any ten out of eleven

(10x3)

- Write a note on Mitosis. a)
- b) Draw a neat labelled diagram of Cell.
- Write a short note on physiology of smell. c)
- d) Write a note on RBC.
- Write a note on Blood Pressure. e)
- Discuss about Muscular Tissue f)
- Discuss about different parts of tongue. g)
- h) Differentiate between sympathetic and parasympathetic nervous system.
- i) Differentiate between smooth and skeletal muscle.
- Write down functions of antidiuretic hormone (ADH). **i**)
- k) Describe role of different hormone(s) in pregnancy.

3. Briefly write down the function of the followings in one or two sentence:

ANSWER ALL (20x1)b) Lysosome a) Ptyalin c) Apocrine gland

d) Renin

e) Pharynx

f) Acrosome i) Tendons

g) FSH j) Platelets h) Oxytocin

m) Golgi bodies

k) Tympanic membrane

1) Centrosome

n) Calcitonin

o) Thromboplastin

p) ESR

q) Thymus gland

r) ECG

s) Sino-atrial node

t) Pepsin

E. R. 1991

2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO.
QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE
Answer the question serially and continuously

Full M	Iark -80		AY & PHYSIOLOGY	Time -3 hrs
1.	(A) Define the followingi) Pacemakerv) Spermatogenesisix) Erythroblastosis	ii) Cardiac cycle vi)Neuron	iii) Vital Capacityvii)Nephronx) Appendicular ske	(1 x 10) iv) Suicidal bag viii) Cranial Nerves leton
	i) Skin ii) Co	nctions of the following onnective Tissue uitary Gland acreas	ng: iii) WBC vii)Adrenal Gland	(1 x 10) iv) Testosterone viii)Lymph
2.	Enumerate the differ details about the mer	1	nital organ with neat la	belled diagram. Write in (5+5+5)
3.	Define Excretion. Dr function.	raw a neat diagram of	urinary tract. Write the	e mechanism of urine (2+5+8)
4.	Define Blood. Write clotting factors prese		nction of Blood. Discu	ss in detail about the (2+5+8)
5.	Define tissues. Class	ify different types of t	issues. Add a note on e	epithelial tissue. (2+6+7)
6.		diagram of the digest own the various funct	•	explain the physiology (5+5+5)
7.	a) Mechanism of resb) Spleenc) Hypothalamus	n any three of the fol piration. I from anterior pituitar	J	(3 x 5)

E. R. 1991

D. Pharm Part - II

2022(II)

24/04/2023

(2)

(6)

 (3×5)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the question serially and continuously

Subject: PHARMACEUTICS-II (Theory) Full Mark -80 Time -3 hrs (Answer any five questions including question No. 1) (A) Define the following terms: 1. (15×1) i) Simple syrup ii) Isotonic solution iii) Eutectic mixture iv) Inscription v) Douches vi) Opacifying agent vii) Dentifrice viii) HEPA ix) Antagonism x) Irrigation xi) Poultices xii) Idiosyncrasy xiii)Displacement value xv) Shaving media xiv) Tablet Triturate (B) Translate the following Latin terms into English (5×1) i) capeiendus ii) cochlear minimum iii) omni mane iv) unguentum v) si opus sit Define Prescription, Describe the different parts of an ideal prescription with a neat 2. & labelled diagram (2+10+3)3. a) Explain the term Ointment base. (2) b) Classify & Explain details about different types of Ointment base. (3+5)c) Write notes on "facial cosmetics". (5) a)Explain the term posology. (2) 4. b)Discuss various factors that affect the dose of a drug. **(7)** c) Write the Dilling formula. (4) d) Calculate the dose for 6months old infant when the adult dose of a drug is 100mg.(2) 5. a) Define Emulsion. (1)

d) Explain about various identification test for an emulsion

6. a) Write notes on therapeutic incompatibility.

b) What are different types of incompatibility?

c) Describe in brief about the physical incompatibility with examples.

(6)

(5)

(7)

c) Briefly discuss various methods used for preparation of emulsion

7. Differentiate between(Answer All)

b) Hard contact lens & Soft contact lens

b) What are different types of emulsions?

- c) Enteral & Parenteral preparation
- d)Suppositories &Pessaries

a) Pastes & Jellies

e)Flocculated &Non flocculated Suspension

OF PHARMACY 26/04/2023

D. Pharm Part - II

E. R. 1991

2022(II)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE Answer the questions serially and continuously

Full M	Subject: PHARMACHEMISTRY-II (Theory) [ark -80] (Answer any five questions including question No. 1)	Time -3 hrs
1.	vi)Phenazine vii)Acridine viii)Quinolines ix)Coumarin x)Fura b) Write the Chemical structure & uses of following compounds	(10x1) dazoline n (5x1) ylnitrite
2.	 Write short notes on any THREE: i) Steroidal Drugs ii) Local Anaesthetics iii) Classify β lactam Antibiotics with suitable example iv) High ceiling Diuretics 	(3x5)
3.	Write short notes on the following agents (any THREE). i) Sedative & Hypnotic drugs ii) Oral Hypoglycaemic Agents iii) Antimalarial Drug iv) Cardiac Glycosides	(3x5)
4.	What do you mean by Sulphonamides? Classify them by giving suitable examples. Mention chemical structure, chemical name and uses of the following drugs: i) Sulfadiazine ii) Sulfacetamide iii) Sulphamethoxazole	s.[2+4+(3x3)]
5.	Define and classify Analgesics. Write the structure, nomenclature and brand names of the following drugs: i) Indomethacin ii) Aspirin iii) Phenylbutazone	[1+5+(3x3)]
6.	What are anticholinergic drugs? Classify them with suitable examples. Write the structure nomenclature, popular brand name and uses of the following. i) Atropine ii) Propantheline iii) Biperiden	[1+2+(4x3)]
7.	Write short notes on any THREE a) Anticoagulant b) Anti neoplastic drugs c) Anti-Fungal agents d) Anthelmintic Drugs e) Antitubercular Drugs	(3x5)
