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B.Pharmacy II Semester (PCI) (Main) Examination Jul/Aug 2024 Dist

Subject& Code: HUMAN ANATOMY AND PHYSIOLOGY-II& BP201T

Time: 3 Hours

Max.Marks: 75

PART- A Note: Answer <u>ALL</u> questions

 $(10 \times 2 = 20 \text{ Marks})$

Q.No.	Question	CO	BL
1	Define synapse and mention the different neurotransmitters		1
2	Explain the following a. action potential b. hyperpolarization	1	2
3	Explain the structure and function of parasympathetic nervous system.	1	2
4	Write a note on thymus gland.	1	1
5	Discuss BMR.	2	2
6	Describe Disorders of Kidney.	4	2
7	Write a note on functions of liver.	2	3
8	Write a note on micturition reflex.	4	3
9	Define Pineal gland.	2	1
10	Explain the term DNA, Gene chromosome, Nucleosome	6	2

PART B

Note: Answer any TWO questions

 $(2 \times 10 = 20 \text{ Marks})$

O.No.	Ouestion	CO	BL
11	Describe the neuroingmoral regulation of acid secretion in stomach and write a	2	2
''	note on pentic ulcers.		
12	Discuss the function of DNA and write a note on genetic inheritance.	6	2
13	Explain the structure and functions of pituitary gland.	5	2

PART C

Note: 4	Answer any SEVEN questions (7)	x 5 = 35 Mark	s)
Q.No.	Question	CO	BL
14	Describe the structure of reflex arc.	1	2
15	Explain ventricles of brain.	1	2
16	Explain how respiratory areas control respiration.	3	2
17	Describe the parts of female reproductive system.	6	2
18	Give a note on the role of RAS system in kidney functions.	4	2
19	Explain the structure of thyroid gland.	5	2
20	Enlist the functions of liver and gall bladder.	2	1
21	Describe the Anatomy and functions of alveoli.	3	2
22	Write a note on lung volumes and lung capacity.	3	2



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B.Pharmacy II Semester (PCI) (Main) Examination Jul/Aug 2024

Subject & Code: BIOCHEMISTRY & BP203T

Time: 3 Hours

Max.Marks: 75

PART-A

Note: Answer ALL questions

 $(10 \times 2 = 20 \text{ Marks})$

Q.No.	Question	CO	BL
1	What is a carbohydrate and its function in human body?		2
2	Define glycolysis and gluconeogenesis.	1	2
3	Mention types of RNA & their functions.	2	2
4	Write the functions of Nucleic acids.	2	2
5	What are the functions of lipids in the human body?		2
6	What is atherosclerosis?	2	2
7	What is enzyme inhibition?	2	2
8	Give biological significance of proteins.	2	1
9	Differentiate between DNA & RNA.	5	2
10	Define Transcription and Translation.	2	2

PART- B

Note: Answer any TWO questions

 $(2 \times 10 = 20 \text{ Marks})$

Q.No.	Question	CO	BL
11	Define enzymes, Write their IUB classification and factors affecting enzyme	2	2
	action.		
12	Explain the DNA replication process and enzymes involved in this process.	3	2
13 🔏	Discuss the biosynthesis of purine nucleotides.	3	2

PART-C

Note: Answer any **SEVEN** questions

 $(7 \times 5 = 35 \text{ Marks})$

Q.No.	Question	CO	BL
14	Write a note on lipid metabolism.	5	2
15	Explain briefly, about β-oxidation of fatty acids.	5	2
16	Write about Glycolysis pathway, energetic and significance.	1	2
17	How the hormones regulate blood glucose levels and Diabetes mellitus?	4	4
18	Explain the Electron transport chain.	1	2
19	Explain the urea cycle and its disorders.	5	2
20	Explain the Citric acid pathway.	1	2
21	Describe the production of bile acids and steroid hormones from cholesterol.	3	2
22	Explain therapeutic, diagnostic applications of enzymes and isoenzymes.	2	2



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B.Pharmacy II Semester (PCI) (Main) Examination Jul/Aug 2024

Subject & Code: COMPUTER APPLICATIONS IN PHARMACY & BP205T.

Time: 2 Hours Max.Marks: 50

PART- A

Note: Answer any TWO questions

 $(2 \times 10 = 20 \text{ Marks})$

Q.No.	Question	CO	BL
1	Write the usage of Text Information Management System & CDS in data	5	3
	analysis.		
2	Describe in detail about the softwares used in pharmacokinetics and	3	4
	mathematical model drug design.		
3	Add a note on Pharmacy Drug database and Web Servers.	2	5

PART B

Note: Answer any SIX questions

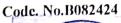
 $(6 \times 5 = 30 \text{ Marks})$

Q.No.	Question	CO	BL
4	Give outline on Two's complement method in number system.	1	1
5	Write a note on MYSQL		3
6	What are the process specifications in Information system?		4
7	Describe in detail about mobile technology and adherence monitoring.		2
8	Give brief introduction to HTML.		3
9	List out the applications of computers in Pharmacy.	3	1
10	Discuss in brief about objectives of Bioinformatics.		5
11	Explain about Patient Information system.	3	4



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B.Pharmacy II Semester (PCI) (Main) Examination Jul/Aug 2024

Subject & Code: Pathophysiology & BP204T

Time: 3 Hours

Max. Marks: 75

PART- A

Note: Answer ALL questions

 $(10 \times 2 = 20 \text{ Marks})$

Q.No.	Question	CO	BL
1	Explain the pattern of Cell Death	1	2
2	Define Anemia. Differentiate different types of anemia	3	4
2	Explain the term Transudate and Exudate	1	2
3	Investigate the causative organism of Syphilis and Gonorrhea	6	5
4		4	2
5	Explain the causes of Meningitis	5	1
6	Define hepatitis. Explain signs and symptoms of Hepatitis-B	2	4
7	Describe Myocardial infection in brief	1	5
8	Evaluate the signs and symptoms of Parkinsonism	1	1
9	Define the terms: a. Cell swelling b. Calcification	1 2	1
10	Illustrate the complications of Diabetes	3	3

PART B

Note: Answer any TWO questions

 $(2 \times 10 = 20 \text{ Marks})$

O.No.	Question	CO	BL
11	Explain the mechanism of Acute Inflammation	1	2
12	Define Hypertension. Discuss Etiology and Pathophysiology of Hypertension	2	1
13	Classify Cancer and explain etiopathogenesis of Cancer	5	2

PART C

Note: Answer any **SEVEN** questions

 $(7 \times 5 = 35 \text{ Marks})$

Q.No.	Question	CO	BL
14	Explain in brief about basic principles of Wound healing		2
15	Describe the pathogenesis of Gouty Arthritis	5	2
16	Differentiate Atherosclerosis and Arteriosclerosis. Explain in brief about	2	4
	pathogenesis of Atherosclerosis		
17	Discuss etiopathogenesis of Asthma	2	2
18	Outline Chemical Mediators of Inflammation. Explain the role of Histamine in brief	1	4
19	Discuss pathogenesis of Depression	4	2
20	Explain Pathogenesis of Inflammatory bowel disease	4	1
21	Estimate the etiopathogenesis of Jaundice	5	5
22	Discuss pathogenesis of Hypothyroidism	3	2
3			

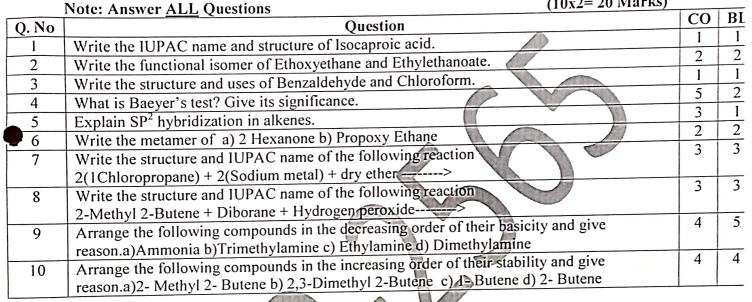
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B. Pharmacy II Semester (PCI) (Main) Examination Jul/Aug2024

Subject& Code: Pharmaceutical Organic Chemistry-I&BP202T Max Marks: 75 Time: 3Hours





PART B

	100	(2-10-20 Marks)
N. A. American and TWO Questions		(2x10=20 Marks)
Note: Answer any TWO Questions	property.	 `

O No	Question	CO	BL
Q. No	What are the characteristics reactions of haloalkanes? Explain their mechanism,	3	2
11	What are the characteristics reactions of haroundaries. Experimenthese reactions,		
1	stereochemistry with an example each. Mention the factors affecting these reactions.	2	2
12	What happens when 2,4- Hexadiene is treated with Hydrogen bromide gas in the	3	
12	Drosence of peroxides h) Absence of peroxides.		
	Explain the mechanism in detail. Mention the structure of the major product formed with its		
	Explain the medianism in detail. Believe the characterists		l
	IUPAC name. State the rules governing the above two reactions.	6	1
13	Explain in detaila) Cannizzaro reaction	6	1
13	b) Basicity of amines and effect of substituents on basicity	4	2
1	h) Basicity of antifics and crieet of substituting		

PART C

Note: Answer any SEVEN Questions

(7x5=35 Marks)

Q. No	Ouestion	CO	BL
	Explain electromeric effect.	4	2
14	Explain electrometre effect.	6	T
15	Write short notes on Perkin condensation.	5	1
16	What are the qualitative tests for carbonyl compounds?	1	12
17	Explain the stability of Free radicals.	4	2
18	Write the HIPAC system of nomenclature of carboxylic acids.	1	1
19	Write the Kolbe's electrolysis for the preparations of alkanes and alkynes.	3	1
20	Explain the Hinsberg method of separation of amines.	5	2_
21	Write short notes on Ozonolysis of Alkenes and alkynes.	5	3
22	Write the structure and uses of a) Glycerol b) Cinnamaldehyde	1	1





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B.Pharmacy II Semester (PCI) (Main) Examination Jul/Aug 2024

Subject & Code: Environmental Sciences & BP206T

Time: 2 Hours

PART- A

Note: Answer any TWO questions

 $(2 \times 10 = 20 \text{ Marks})$

Max.Marks: 50

Q.No.	Question	CO	BL
1	Explain the Forest Resources & Assess the role of an Individual in	2	5
	conservation of Natural resources		
2	Categorize the Natural resources and Differentiate between the Renewable and	1	4
	Non		.=
	renewable resources	3	4
3	Out list the concept, structure and functions of Ecosystem. Briefly explain any		
	two ecosystems.		

PART B

Note: Answer any SIX questions

 $(6 \times 5 = 30 \text{ Marks})$

	TA EN EN EN	CO	BL
Q.No.	Question Explain the mineral resources & the health problems due to the mining	2	2
4			
	Of minerals Describe the various grass land ecosystems.	3	2
5	Define Air Pollution & Present various reasons for the Air Pollution	4	4
7	Outline the water Resources & conclude conservation of water	2	5
8	Examine the reasons for soil pollution and its impact on the health	5	4
9	Illustrate a food chain and Design a food web with examples.	3	6
10	Describe aquatic ecosystem & it's beneficial to mankind?	3	2
11	Simplify a note on Deforestation	2	5
	ALTO		
