End Semester Examination - Summer-2023

Date:06/09/2023 Sem: II **BP201T** B. Pharmacy Course Subject Code: Human Anatomy and Physiology-II Subject Name: 3 Hr. Duration Max Marks Instructions: 1. All questions are compulsory 2. Draw diagrams / figures wherever necessary $(10 \times 2) = 20$ 3. Figures to right indicate full marks Q. 1. Objective Type Questions (Answer all the questions) Draw well-labeled diagram of T.S. of small intestine. i) What is artificial respiration? Mention the methods of artificial ii) respiration. What is Cushing's syndrome? iii) Mention the name of different parts of Nephron. iv) Write any two examples of neurotransmitters. v) Write note on cerebrospinal fluid vi) Discuss function of Digestive System vii) Define synapse and neuroglia viii) Enlist different phases of menstrual cycle. ix) What is gynecomastia? x) $(2 \times 10) = 20$ Long Answers (Answer 2 out of 3) Q. 2. Write Anatomy & Physiology of stomach. Explain Acid (HCl) i) production & secretion. Explain in details female reproductive system. ii) Describe in details the physiology of Urine formation. iii) $(7 \times 5) = 35$ Short Answers (Answer 7 out of 9) Q. 3. Explain RAAS pathway. i) Write note on spermatogenesis. ii) Brief on Pituitary gland and hormone secreted by it. iii) Write Anatomy & Physiology of Lungs. iv) Write brief note on spinal cord. v) Enlist organ of Digestive system and its function. vi) Describe different role of ATP vii) Describe thyroid gland and hormone produced by it. viii)

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Discuss in details structure of Neuron.

ix)

End Semester Examination Summer-2023

08-09-2023 Date:

Sem: B. Pharmacy Course

II **BP202T** Subject Code:

Pharmaceutical Organic Chemistry-I Subject Name:

3 Hr. Duration

Max Marks Instructions:

All questions are compulsory 1.

Draw diagrams / figures wherever necessary 2. Figures to right indicate full marks

3. Objective Type Questions (Answer all the questions) Q. 1.

 $(10 \times 2) = 20$

Define electrophile and nucleophile with example? i)

Write down the structures of ii)

75

a) 2-methyl-3-chloro-1-pentene

b) 5-fluoro-3-hydroxy-pentanoic acid

Enlist the qualitative test for Aldehyde? iii)

Explain basicity of amine? iv)

Write down the structure and uses of benzyl alcohol? V)

Enlist the reactions of carbonyl compounds? vi)

What is the hybridization of carbon atom present in vii)

a) Alkanes b) Alkenes

Predict the product as per the Crossed Aldol Condensation in the following viii)

reaction?

Define carbocation and carbanion? ix)

What is inductive effect? X)

Long Answers (Answer 2 out of 3) Q. 2.

 $(2 \times 10) = 20$

What elimination reaction? Explain reaction, mechanism kinetics, and order i) of reactivity of E1 and E2 reaction?

Why Aldehydes and ketones are susceptible for nucleophilic addition ii) reactions? Explain the reaction and mechanism of Aldol condensation and benzoin condensation?

Write in detail about bimolecular nucleophilic substitution reaction (SN2) iii) along with suitable example?

Short Answers (Answer 7 out of 9) Q. 3.

 $(7 \times 5) = 35$

Write down the Rules for IUPAC Nomenclature for organic compounds? i)

Write a short note on isomerism in organic compounds? ii)

Discuss about the free radical addition reactions of conjugated dienes? iii)

Describe with example, halogenation of alkane? iv)

Explain Diel-Alder reaction? v)

Write short note on Cannizzaro's reaction? vi)

Write about the Markownikoff's rule and Anti-Markownikoff's rule? vii)

What are carboxylic acids? Explain the effect of substituents on acidity of viii) carboxylic acids?

Draw the structures of a) Benzoic acid b) Ethanolamine c) Ethylenediamine ix) d) Dichloromethane e) Benzaldehyde

End Semester Examination – Summer 2023

Date: 11/09/2023

	ject Name: Biochemistry Marks: 75	Subject Code:	II BP203T 3hr	
1 2	ructions: I. All questions are compulsory I. Draw diagrams / figures wherever necessary II. Figures to right indicate full marks			
Q. 1.		ions)		$(10 \times 2) = 20$
i)	Define transamination and deamination.			
ii)	Write differences between DNA and RNA.			
iii)	Define endergonic and exergonic reactions.			
iv)	Give biological significance of cholesterol.			
v)	Define nucleosides and nucleotides			
vi)	Write the biological functions of proteins.			
vii)	Draw structures of Sucrose and Tyrosine.			
viii)	Define essential fatty acids with examples.			
ix)	What is fatty liver and phenylketonuria?			
x)	Define energy rich compounds with examples.			
Q. 2.	Long Answers (Answer 2 out of 3)			$(2 \times 10) = 20$
i)	Explain the various reactions involved in the Citric acid co	ycle with energetic	s.	
ii)	Explain β-oxidation of fatty acid along with the energetics			
iii)	Define Enzyme inhibitors and discuss different types of en	nzyme inhibitors.		
Q. 3.	Short Answers (Answer 7 out of 9)	State William Company		$(7 \times 5) = 35$
i)	Explain electron transport chain.			
ii)	Give the reaction sequence of Glycolysis pathway.			
iii)	Define enzymes and classify them according to IUB with	examples.		
iv)	Define carbohydrates classify them with example and give significance.	e their biological		
v)	What is ketoacidosis? Write the formation of ketone bodie	es.		
vi)	Explain biosynthesis of purine.			
vii)	Describe the hormonal regulation of blood glucose level.			
viii)	Give the reaction sequence in Urea Cycle.			
ix)	Explain replication of DNA.			

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End Semester Examination – Summer 2023

Date: 13/09//2023

B. Pharmacy Course

Pathophysiology

Sem:

Subject Code: BP204T

Subject Name: 75 **Max Marks**

Duration:

03 Hr.

Instructions:

All questions are compulsory 1.

Draw diagrams / figures wherever necessary 2.

Figures to right indicate full marks 3.

Objective Type Questions (Answer all the questions) 0.1.

i) Define Pathophysiology. Explain the Scope of Pathophysiology.

Define the following terms: a) Atrophy b) Hyperplasia

iii) Write the diagnostic tests for Myocardial Infarction (MI).

iv) Define Anemia. Enlist any 4 types of Anemia

v) Explain types of hepatitis.

vi) Explain cause of chronic renal failure.

vii) Explain sign & symptoms of gout.

viii) Explain chemical mediators of inflammation

ix) Define terms leprosy & jaundice.

x) Define terms hypothyroidism & hypertension.

 $(2 \times 10) = 20$

Long Answers (Answer 2 out of 3) Q. 2.

Define Asthma. Explain the pathogenesis, types, causes, and i) Prevention of Asthma.

Define TB. Explain the pathogenesis, types, causes, and Prevention ii) of TB.

Define epilepsy. Explain the pathogenesis, types, causes, and Prevention iii) of epilepsy.

Q. 3. Short Answers (Answer 7 out of 9)

 $(7 \times 5) = 35$

Write a note on UTI.(Explain the Types, Etiology, Diagnosis)

Define Atherosclerosis. Discuss the Pathogenesis & Causes of

ii) Atherosclerosis.

iii) Define Angina Pectoris. Explain the Types, Etiology, Clinical Manifestations/ features, Diagnosis, and Treatment of Angina Pectoris.

iv) Define COPD. Explain the pathogenesis, causes, and Prevention of COPD.

v) Discuss in brief about rheumatoid arthritis.

