



## SUPPLEMENTARY EXAMINATION-2024

2<sup>nd</sup> Semester B.Pharm

# HUMAN ANATOMY & PHYSIOLOGY-II BP 201

(For 2023 Admitted Batch)

Time: 3 Hours

Full Marks: 75

Answer Question No.1 (Part-A) is compulsory, any SEVEN from Part-B and any TWO from Part-C. The figures in the margin indicate full marks. All parts of a question should be answered at one place only.

#### PART-A

1. Objective Answer Type Questions (Answer All)

 $[2 \times 10]$ 

- (a) What are the different types of Neuroglialcells.
- (b) Define resting membrane potential.
- (c) Name the components of reflex arc.
- (d) Define tidal volume and residual volume.
- (e) Write the functions of calcitonin and calcitriol.
- (f) What is additions disease?
- (g) Name the four disorder of kidney.
- (h) Define nonsense mutation with examples.
- (i) Name the bacteria that is responsible for peptic ulcer.
- (j) Write the different part of small intestine.

#### PART-B

- 2. Focused-Short Answer Type Questions-(Answer Any Seven)  $[5 \times 7]$ 
  - (a) Explain micturition reflex.
  - (b) Write the function of hypothalamus.

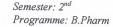
- (c) Define glomerular filtration rate (GFR). Write the different factors that regulate GFR.
- (d) Define neurotransmitter. Briefly explain the steps involved in neurotransmission.
- (e) Write the function of glucocorticoids.
- (f) Write short note on Master Gland.
- (g) Write the functions of liver.
- (h) How hormonal regulation control spermatogenesis.
- (i) What is genetic pattern of inheritance? Explain schematically the dominant type of inheritance.

#### **PART-C**

## Long Answer Type Questions (Answer Any Two)

Describe the mechanism of respiration and explain how it is regulated.
 Define hormones. Classify the hormones according to their chemical structure. Explain the mechanism of water soluble hormones.
 Explain the physical and chemical method of digestion in small intestine.

\*\*\*\*





## SUPPLEMENTARY EXAMINATION-2024 2nd Semester B.Pharm

## PHARMACEUTICAL ORGANIC CHEMISTRY I BP 202

(For 2023 Admitted Batch)

Time: 3 Hours

Full Marks: 75

Answer Question No.1 (Part-A) is compulsory, any SEVEN from Part-B and any TWO from Part-C.

The figures in the margin indicate full marks.

All parts of a question should be answered at one place only.

#### **PART-A**

1. Objective Answer Type Questions (Answer All)

 $[2 \times 10]$ 

- (a) What are isomerism exhibited by alcohol?
- (b) Draw the structure of propan-1, 2-diol and write its common name.
- (c) Why carboxylic acid boiling point is more than water?
- (d) What is conjugated diene, give an example?
- (e) Write the structure and uses of iodoform.
- (f) Classify the aliphatic amines.
- (g) Write the structure and uses of methanol.
- (h) What is Lucas reagent? Write its use.
- (i) Write the structure and uses of acetic acid.
- (j) Why formaldehyde does not undergo aldol condensation?

#### **PART-B**

2.	Foc	used-Short Answer Type Questions-(Answer Any Seven)	$[5 \times 7]$
	(a)	Write the qualitative test for aldehydes with suitable reaction example.	

- (b) Differentiate  $SN_1$  and  $SN_2$  reactions of alkyl halides.
- (c) Write the Anti-Markownikoff's orientation for alkenes and Diel Alder reaction for conjugated dienes.
- (d) Classify and describe the organic compounds.
- (e) Describe Canizarro reaction with example. Differentiate it from crossed cannizaro reaction.
- (f) Write the structure and uses of acetone and acetaldehyde.
- (g) Write the qualitative test for amides with example.
- (h) Write the structure and uses of salicylic acid and benzoic acid.
- (i) Write the effects of substituents on acidity of carboxylic acids.

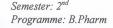
#### **PART-C**

## Long Answer Type Questions (Answer Any Two)

3.	Write a detail notes on qualitative test of alcohols with suitable examples.	[10]
4.	Write a detail note on various types of structural isomerism with examples.	[10]
5.	Write the detail note on qualitative tests for carboxylic acids	[10]

\*\*\*\*

with examples.





#### **SUPPLEMENTARY EXAMINATION-2024**

2<sup>nd</sup> Semester B.Pharm

## BIOCHEMISTRY BP 203

(For 2023 Admitted Batch)

Time: 3 Hours

Full Marks: 75

Answer Question No.1 (Part-A) is compulsory, any SEVEN from Part-B and any TWO from Part-C. The figures in the margin indicate full marks. All parts of a question should be answered at one place only.

#### **PART-A**

- 1. Objective Answer Type Questions (Answer All)  $[2 \times 10]$ 
  - (a) The Glycosaminoglycan that serve as Anti-coagulant.
  - (b) Name the essential Fatty acids.
  - (c) Name the amino acid found in protein structure.
  - (d) Name the fundamental unit of genetic information.
  - (e) Name an Iso-enzyme.
  - (f) Name a co-enzyme containing Vitamin B6.
  - (g) The red color of hemoglobin is due to.
  - (h) Name the disaccharide present in milk.
  - (i) Which amino acid involves in transmethylation?
  - (j) Male sex hormones are known as.

#### **PART-B**

- 2. Focused-Short Answer Type Questions-(Answer Any Seven)  $[5 \times 7]$ 
  - (a) Write short note on Serotonin.
  - (b) Write short note on glycolysis.

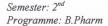
- (c) Write short note on  $\beta$ -oxidation.
- (d) Write short note on electron transport chain (ETC).
- (e) Write short note on melatonin.
- (f) Write short note on jaundice.
- (g) Classify the enzymes with example.
- (h) Write short note on ketone bodies.
- (i) Write short note on phenyl ketourea.

#### PART-C

## Long Answer Type Questions (Answer Any Two)

3.	Write an account of various factors affecting enzymatic	[10]
	activity.	
4.	Describe TCA Cycle with energetics.	[10]
5.	Write briefly on Urea cycle with its inborn error.	[10]

\*\*\*\*



 $[2 \times 10]$ 

II



### **SUPPLEMENTARY EXAMINATION-2024**

2<sup>nd</sup> Semester B.Pharm

## **PATHOPHYSIOLOGY BP 204**

(For 2023 Admitted Batch)

Full Marks: 75 Time: 3 Hours

> Answer Question No.1 (Part-A) is compulsory, any SEVEN from Part-B and any TWO from Part-C. The figures in the margin indicate full marks. All parts of a question should be answered at one place only.

#### PART-A

Objective Answer Type Questions (Answer All)

(a)	Define hypoxia and ischemia.
(b)	Write the basic difference between type I and type II diabetes.
(c)	Write two specific characteristics of cancer cells.
(d)	Megaloblastic anemia is due to deficiency of
(e)	Name the two causative microorganisms that are responsible for sexually transmitted diseases.
(f)	What isarrhythmia?
(g)	Write the etiology of endemic goiter.
(h)	Give two examples of neuro degenerative disorders.
(i)	Give two examples of arachidonic acid metabolites
(j)	What is COPD stands for?

#### **PART-B**

 $[5 \times 7]$ 

Focused-Short Answer Type Questions-(Answer Any Seven)

2

Explain the different factors that affect wound healing. (a) Write the etiology and pathogenesis of goiter. (b) (c) Write the pathogenesis of type I diabetes mellitus. (d) Define angina. Briefly discuss about various types of angina. Write the causative organism of tuberculosis. Describe (e) the mode of transmission and pathogenesis of tuberculosis. Define gout. Briefly describe the pathogenesis of gout (f) with schematic representation. Define myocardial infraction (MI). (g) Write the pathogenesis of MI. Explain the clinical features and etiology of depression. (h) Define cell injury. Explain about the different agents (i) involved in cell injury. PART-C

## Long Answer Type Questions (Answer Any Two)

- 3. Define inflammation. Write the pathogenesis of cellular events of acute inflammation with labelled diagram.
  4. Classify anemia. Write the pathogenesis of iron deficiency [10]
- 4. Classify anemia. Write the pathogenesis of iron deficiency [10] anemia.
- 5. Explain about the different type of respiratory diseases. [10] Write the etiology and pathogenesis of asthma.

\*\*\*\*