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Total Number of Pages: 02

Course: B.Pharm
Sub_Code: BP204T

2nd Semester Regular/Back Examination: 2022-23

SUBJECT: Pathophysiology

BRANCH(S): B.Pharm

Time: 3 Hour

Max Marks: 75

Q.Code: M659

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II, and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1

Answer the following questions :

(2 x 10)

- Write various causes of cell injury.
- What is opsonin? Write its role in inflammation.
- What do you mean diapedesis?
- Write down the causes of megaloblastic anaemia.
- Define chemotaxis. Write down the example of chemotactic agent.
- Define and classify epilepsy.
- What are the symptoms of acute renal failure?
- What is the difference between atherosclerosis and arteriosclerosis?
- Name the causative agent for Gonorrhoea. Write down its symptoms.
- Name the disorder associated with hypothyroidism.

Part-II

Q2

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

(5 x 7)

- What is necrosis? Write different classes of necrosis.
- Define hypertrophy. Write down the causes of hypertrophy.
- What is hyperbilirubinemia. Describe the pathogenesis of Jaundice.
- Define and classify Angina. Write its pathogenesis.
- What is Rheumatoid Arthritis and Osteoarthritis? Briefly Explain the pathogenesis of Rheumatoid arthritis.
- Classify Diabetes mellitus. Write the pathogenesis and symptoms of IDDM.
- What is Parkinson's disease? Describe its pathogenesis.
- Describe the etiopathogenesis of peptic ulcer. Write down its symptoms.
- Classify cancer; Write its causes and pathogenesis.



Part-III

Long Answer Type Questions (Answer Any Two)

- Q3** Define and classify cell injury and describe pathogenesis of reversible type of cell injury due to hypoxia and Ischemia. **(10)**
- Q4** Discuss about the Vascular events of inflammation and cell derived mediators of inflammation. Write a short outline on process of healing. **(10)**
- Q5** What is pulmonary and non pulmonary tuberculosis? Discuss about the transmission, pathogenesis, sign and symptoms of Tuberculosis. **(10)**
- Q6** Define Hypertension. What are the types of Hypertension? Discuss the pathogenesis and symptoms of hypertension. **(10)**

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Course: B.PHARM.
Sub. Code: BP203T

2nd Semester Regular/Back Examination: 2022-23

SUBJECT: BIOCHEMISTRY

BRANCH: Pharmacy

Time: 3 Hour

Max Marks: 75

Q. Code: M648

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II, and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions : (2 x 10)

- What are nucleic acids? Differentiate between them.
- What is Rapaport –Leubering cycle?
- Define 'Michaelis Menten constant'. Write down its significance.
- What are essential amino acids? Give examples.
- What is Cori cycle?
- Define 'translation'.
- What is Gout? Mention its symptoms and treatment.
- Write down two therapeutic applications of enzyme.
- Write down the disorders of Phenylalanine and Tyrosine metabolism.
- How is hyperbilirubinemia related to jaundice?

Part-II

Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (5 x 7)

- Define Carbohydrate, classify it and write down the biological role of carbohydrate.
- Give a notes on ETC.
- Describe the enzyme inhibition with examples.
- Write down the synthesis and significance of Melatonin in body.
- Describe the urea cycle.
- Discuss about gluconeogenesis.
- Define coenzyme. Write down the biological role of any three coenzymes.
- Name the hormone control the glucose level in the body. Give a note on Diabetes mellitus.
- Write notes on transcription.



Part-III

Long Answer Type Questions (Answer Any Two)

- Q3** Define proteins, classify it with examples. Mention the importance of proteins. Discuss the various properties of proteins. **(10)**
- Q4** Discuss detail about TCA cycle with energetic. **(10)**
- Q5** Write down the β - oxidation of saturated fatty acid and discuss the disorder of lipid metabolism. **(10)**
- Q6** Define enzyme, classify it. Discuss the factors affecting the enzyme activity. **(10)**

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Total Number of Pages: 02

Course: B.Pharm
Sub_Code: BP201T

2nd Semester Regular/Back Examination: 2022-23
SUBJECT: HUMAN ANATOMY AND PHYSIOLOGY -II
BRANCH(S): B.Pharma

Time: 3 Hour

Max Marks: 75

Q.Code: M628

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II, and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions : (2 x 10)

- Write the composition and functions of cerebrospinal fluid.
- Name the neurotransmitters released from preganglionic and postganglionic sympathetic nerve endings.
- Name the hormones of adrenal gland.
- Write the exocrine and endocrine secretions of Pancreas.
- Write the disorders due to hyper and hypo secretions of growth hormone.
- Define vital capacity.
- Define genetics.
- What is menarche and menopause?
- What is Oogenesis?
- Write note on action potential.

Part-II

Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (5 x 7)

- Write a note on reflex activity.
- Write the structure and functions of liver.
- Explain the mechanism of respiration.
- Write a note on protein synthesis.
- Write in detail about hormones of the pituitary gland and the disorders occur due to their hypo and hyper secretions.
- Write a note on role of Renin Angiotensin system in Kidney.
- Write a note on neurotransmitters.
- What is Spermatogenesis?
- Write note on physiology of menstruation.



Part-III

Long Answer Type Questions (Answer Any Two)

- Q3** With neat and labeled diagram describe different parts of digestive system. Write a note on digestion and absorption of nutrients in GIT. (10)
- Q4** Write the anatomy and physiology of Kidney. Add a note on process of urine formation. (10)
- Q5** Describe the hormones of thyroid gland with their synthesis, regulation and functions. (10)
- Q6** Define CNS. Write different parts of brain with labeled diagram. Write a note on meninges of brain. (10)

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Course: B.Pharm
Sub Code: BP202T

2nd Semester Regular/Back Examination: 2022-23

SUBJECT: Pharmaceutical Organic Chemistry - I

BRANCH(S): Pharmacy

Time: 3 Hour

Max Marks: 75

Q.Code: M638

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II, and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- What is electromeric effect? Give example.
- What are electrophiles and nucleophiles?
- Give the IUPAC name of $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{COOC}_2\text{H}_5$.
- What are the differences between molecular orbitals and hybridized orbitals?
- Why formic acid is more acidic than acetic acid?
- Write the structure and uses of hexamine.
- What is the difference between Markovnikov and anti Markovnikov product?
- Write an example of diene and dienophile.
- Which qualitative test is used to detect esters?
- Why formaldehyde undergoes Cannizzaro reaction but acetaldehyde does not?

Part-II

Q2 Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- Give chemical tests to differentiate between primary, secondary and tertiary alcohols.
- Explain the comparative stability of primary, secondary and tertiary carbocations.
- Write a short note on basicity of aliphatic amines and factors affecting it.
- Write the structure and uses of citric acid, glycerol and acetyl salicylic acid.
- Discuss aldol condensation reaction with example.
- Discuss ozonolysis with example.
- Write a short note on reactivity and stability of conjugated dienes.
- Write the structure and uses of iodoform, benzyl benzoate and amphetamine.
- Discuss structural isomerism in organic compounds.

Part-III

Long Answer Type Questions (Answer Any Two)

- Q3** Define elimination reaction. Discuss the kinetics and mechanism of E1 and E2 reactions with suitable examples. (10)
- Q4** Write three general methods of preparation and three important reactions of carboxylic acid. Explain the effect of substituents on acidity of carboxylic acids. (10)
- Q5** Define and differentiate SN1 and SN2 reactions with suitable illustrations. Write a note on factors affecting SN1 and SN2 reactions. (10)
- Q6** Discuss the principles/mechanisms and applications of Benzoin condensation and Perkin condensation. (10)

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