



BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Pharm-2020/B.Pharm-2022/B.Pharm-2023/B.Pharm-2024/B.Pharm-2025

Course Name – Pathophysiology/Pathophysiology - Theory

Course Code - BP204T

(Semester II)

Full Marks : 75

Time : 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

(i) Identify the correct option: Parkinson's disease occurs due to.

- | | |
|---|--|
| a) Degradation of dopaminergic neuron | b) Metabolism of dopamine by mono amino oxidase enzyme |
| c) Mutation of SNCA genes in chromosome 4 | d) All the causes are responsible for Parkinson's. |

(ii) Identify the factor responsible for haemophilia A.

- | | |
|-------------------------|------------------------|
| a) Clotting factor VIII | b) Clotting factor VII |
| c) Clotting factor VI | d) Clotting factor IX |

(iii) Choose the correct option for necrosis.

- | | |
|-------------------|---------------------------------|
| a) Reversible | b) Lack of oxygen to the tissue |
| c) Not reversible | d) Blebbing at the periphery |

(iv) Select the definition of tissue perfusion.

- | | |
|--|--|
| a) Excessive fluid in the tissue | b) The amount of blood loss from the tissue |
| c) The amount of lymph that a tissue is receiving from the circulation | d) The amount of blood that a tissue is receiving from the circulation |

(v) Identify the genetic type of HIV.

- | | |
|-------------|-----------------|
| a) Provirus | b) Retrovirus |
| c) Bi-virus | d) Pseudo-virus |

(vi) Identify which of the following conditions is characterized by a deficiency of iron in the body.

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|-------------------------|---------------------------|
| a) Megaloblastic anemia | b) Sickle cell anemia |
| c) Thalassemia | d) Iron deficiency anemia |

(vii) Which one of the following hormones is responsible for stimulating ovulation in females?

- | | |
|---------------------------------|------------------------|
| a) Follicle-stimulating hormone | b) Luteinizing hormone |
|---------------------------------|------------------------|

- c) Thyroxine d) Estrogen
- (viii) Which of the following is the correct etiology of angina pectoris?
- a) Imbalance between myocardium oxygen requirement and oxygen supply. b) Imbalance between myocardium oxygen requirement and oxygen demand.
- c) Both Imbalance between myocardium oxygen requirement and oxygen supply and Spasm of coronary artery d) Weakness of cardiac muscle
- (ix) Select the correct prognosis for alcoholic liver disease.
- a) Complete cure is possible with medication b) Symptoms can be managed with medication and lifestyle changes
- c) Surgery is always necessary d) The disease is fatal
- (x) Select which of the following is a chronic neurological disorder characterized by recurrent seizures.
- a) Parkinson's disease b) Stroke
- c) Epilepsy d) Alzheimer's disease
- (xi) Identify the anti-coagulant drug.
- a) Heparin b) Aspirin
- c) Spironolactone d) Paracetamol
- (xii) Identify the correct example of leukotriene antagonist.
- a) Salbutamol b) Terbutaline
- c) Montelukast d) Atenolol
- (xiii) Identify the incorrect clinical manifestations of atherosclerosis.
- a) Shortness of breath b) Sweating
- c) Narrowing of coronary artery d) Fever
- (xiv) Select the correct effect of a proton pump inhibitor on peptic ulcer.
- a) Increases stomach acid production b) Decreases stomach acid production
- c) Causes bleeding in the stomach d) Causes perforation of the stomach wall
- (xv) Select the correct treatment for peptic ulcer caused by H. pylori infection.
- a) Antibiotics b) Proton pump inhibitors
- c) Antacids d) Corticosteroids
- (xvi) Choose the correct treatment for gastric cancer from the following options.
- a) Surgery b) Chemotherapy
- c) Radiation therapy d) All the treatment methods
- (xvii) Choose the correct treatment for inflammatory bowel disease.
- a) Surgery b) Antibiotics
- c) Physical therapy d) Chiropractic care
- (xviii) Identify the best way to prevent alcoholic liver disease.
- a) Avoid excessive alcohol consumption b) Exercise regularly
- c) Follow a high-protein diet d) Get vaccinated for hepatitis A, B, and C
- (xix) Identify the correct treatment for rheumatoid arthritis.
- a) Antibiotics b) Surgery
- c) Medication to reduce inflammation d) Chiropractic care
- (xx) Choose for which of the following option does the amoxicillin-clavulanate therapy is used for treatment.
- a) UTI b) Typhoid fever
- c) Tuberculosis d) Leprosy

3. State the various intracellular accumulations of reversible cell injury. (5)
4. Define necrosis, gangrene, apoptosis, calcification, autolysis. (5)
5. Describe the pathogenesis of megaloblastic anaemia. (5)
6. Differentiate between positive and negative feedback system. (5)
7. Illustrate the clinical manifestations and complications of iron deficiency anaemia. (5)

OR

- Illustrate the diagnosis and treatment of inflammatory bowel disease. (5)
8. Explain the molecular pathogenesis of diabetes mellitus. (5)

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OR

- Explain in detail about the pathogenesis of hyperthyroidism. (5)

Group-C

(Long Answer Type Questions)

10 x 2=20

9. Applying the diagnostic methods of COPD, report its clinical manifestation and treatment. (10)
10. Write in details about the disorders caused by sex hormones in females. (10)

OR

- Illustrate the clinical manifestation, complication and treatment of tuberculosis focusing on its etiology. (10)