

Roll Number ----- (Total Number of Questions 13) (Total number of Printed Pages 01)

Programme	B. Pharmacy
Semester	2 nd
Subject	Pathophysiology
Subject Code	BP204T
Paper ID	74970
Time	3Hours
Maximum Marks	75

Instructions to Candidates: No supplementary/continuation sheet will be issued to the candidates. Answer the questions precisely.

*Section A consists of Ten parts of 2 marks each (Objective Type); Attempt **ALL**.

Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any **TWO.

***Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

Section A

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Write the difference between Depression and Mania.
ii.	Define Atherosclerosis and give two major acquired risk factors.
iii.	Differentiate Hypertrophy and Hyperplasia.
iv.	List the factors affecting wound healing.
v.	What are the different stages of Cancer?
vi.	Write the differences between Transudate and Exudate.
vii.	Define IBD with two examples.
viii.	Write the diagnostic tests for HIV infection.
ix.	What are the different stages of alcoholic liver disease?
x.	Name the causative organism for Urinary tract infection.

Section B

(2 X 10 = 20)

2.	Write in detail the vascular events involved in the process of Inflammation.
3.	Enlist the etiological agents causing cell injury. Describe the pathogenesis of reversible cell injury induced by hypoxia/ischemia.
4.	Define Hypertension. Discuss the pathogenesis of essential hypertension.

Section C

(7 X 5 = 35)

5.	Explain the pathogenesis of peptic ulcer disease.
6.	Write the principles involved in the pathogenesis of cell injury by various agents
7.	Describe the pathogenesis, and diagnosis of Asthma.
8.	Describe the pathology of sexually transmitted diseases
9.	Explain the process of apoptosis.
10.	Describe the pathogenesis of type 2-diabetes Mellitus.
11.	Explain the Pathogenesis of tuberculosis.
12.	With the clinical symptoms, explain the pathogenesis of Parkinsonism.
13.	Explain the pathophysiology of congestive cardiac failure.

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Section A (10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Differentiate between Atherosclerosis and Arteriosclerosis.
ii.	Define Ischemia/Reperfusion injury (I/R injury).
iii.	What are the symptoms of Acute renal failure?
iv.	Define Sickle cell Anemia.
v.	What are the diagnostic criteria for Myocardial Infarction?
vi.	What are extrapyramidal symptoms?
vii.	What is the role of JG cells in the regulation of blood pressure?
viii.	What are the characteristic features of Jaundice?
ix.	Name STDs causing agent?
x.	What is chemotaxis?

Section B (2 X 10 = 20)

2.	What are the various causes of cell injury? Describe the pathogenesis of reversible cell injury.
3.	Describe the pathophysiology and secondary complications of Diabetes mellitus.
4.	Define Hypertension? Explain its etiopathogenesis.

Section C (7 X 5 = 35)

5.	What is peptic ulcer? Explain its pathogenesis.
6.	What are the signs of Inflammation? Discuss about fate of Acute Inflammation.
7.	What is Tuberculosis? Write a short note on secondary tuberculosis.
8.	Explain Steatosis and death receptor pathway of Apoptosis.
9.	What is epilepsy? Describe the types and features of Epilepsy.
10.	What is Bronchial Asthma? What are its symptoms? Explain its pathogenesis.
11.	(a) Write short note on repair (b) What are the common types of Neoplasm?
12.	Explain various mediators of Inflammation.
13.	Define Rheumatic factor? Explain the symptoms and pathogenesis of Rheumatoid Arthritis.

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Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	Differentiate between apoptosis and necrosis.
ii.	Define the term hypertrophy and hyperplasia.
iii.	How renal failure can be detected?
iv.	Write down the cardinal features of anemia.
v.	What is the role of RAAS in heart failure?
vi.	What are extrapyramidal symptoms?
vii.	Name the main causative organism causing urinary tract infection.
viii.	What is hepatitis B infection?
ix.	What are the key difference between syphilis and gonorrhoea?
x.	What are late complications of diabetes mellitus?

Section- B (2X10=20)

2.	Explain the etiology and pathogenesis of Alzheimer's disease.
3.	Differentiate between acute and chronic inflammation. Discuss about cellular changes occur in acute inflammation.
4.	Define CHF? What are its various types? Discuss the pathogenesis of CHF.

Section- C (7X5=35)

5.	What is peptic ulcer? Explain its pathogenesis.
6.	How does tuberculosis spread in the body?
7.	Explain pathophysiology of AIDS.
8.	What is reversible and irreversible cell injury? Explain the mechanism of ischemia/hypoxia induced irreversible cell injury.
9.	Write a note on biochemical theory of depression.
10.	Discuss morphology of Asthma.
11.	How cancer develops in body? Discuss the mechanism.
12.	Explain various mediators of Inflammation.
13.	Differentiate in pathogenesis of rheumatoid arthritis & gout.

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Section- A**(10 X 2 = 20)**

1.	Give very short answers to the followings:
i.	What is hypertrophy and hyperplasia?
ii.	How renal failure can be detected?
iii.	What is chemotaxis?
iv.	What are the signs of the inflammation?
v.	Define apoptosis.
vi.	What are the symptoms of Alzheimer's disease?
vii.	Define process repair.
viii.	Write down the name of chemical mediators which are involved in inflammation.
ix.	Define unstable angina.
x.	What is primary and secondary hypertension?

Section- B**(2 X 10 = 20)**

2.	What is hypertension? Explain etiology, pathology and clinical features of hypertension.
3.	Explain various mediators of inflammation.
4.	Explain etiology, pathology and clinical features of diabetes mellitus.

Section- C**(7 X 5 = 35)**

5.	Write a short note on inflammatory bowel disease.
6.	Explain megaloblastic anaemia.
7.	Describe the morphology of reversible cell injury.
8.	What is peptic ulcer? Explain its pathogenesis.
9.	What is CHF? What are its various types? Describe the pathogenesis of CHF.
10.	What is Asthma? Explain pathogenesis of asthma.
11.	Explain etiology, pathology and clinical features of tuberculosis.
12.	What is UTI? Explain pathogenesis of urinary tract infection
13.	Write a short note on psychiatric disorders.

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231123
(Evening)

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Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any **TWO.

*** Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

Section- A

(10X2=20)

1.	Give very short answers to the followings:
i.	What is biochemical theory of schizophrenia?
ii.	What is Prinzmetal angina?
iii.	Enlist the symptoms of acute renal failure.
iv.	What do you mean by gout? Write clinical staging of gout.
v.	What are the morphological changes in irreversibly injured cell?
vi.	Define sickle cell anemia.
vii.	What is chemotaxis?
viii.	Name tuberculosis- causing agents.
ix.	What are the different stages of cancer?
x.	Differentiate between hypertrophy and hyperplasia.

Section- B

(2X10=20)

2.	Define hypertension? Explain its etiopathogenesis.
3.	Write in detail the vascular events involved in the process of inflammation.
4.	What is AIDS? Write its etiology, pathogenesis and opportunistic infections that may occur in AIDS patients.

Section- C

(7X5=35)

5.	What is Alzheimer's disease? Write about its clinical symptoms.
6.	What is angina? What are its different types?
7.	What is bronchial asthma? Explain its pathogenesis and its symptoms.
8.	Explain the pathogenesis of peptic ulcer.
9.	Describe the pathogenesis of tuberculosis.
10.	Explain the pathophysiology of congestive cardiac failure.
11.	Explain the process of apoptosis.
12.	Describe the pathogenesis of type- 2 diabetes mellitus
13.	Define rheumatic factor. Explain the symptoms and pathogenesis of rheumatoid arthritis.

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030624 (Morning)

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**Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any TWO.

***Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any SEVEN.

Section- A (10 X 2 = 20)

1.	Give a very short answers to the followings:
i.	Write the difference between depression and mania.
ii.	Define atherosclerosis and give two major acquired risk factors.
iii.	Differentiate between hypertrophy and hyperplasia.
iv.	List out the various phases of wound healing.
v.	What are the different stages of cancer?
vi.	Write the differences between transudate and exudate.
vii.	Define Inflammatory Bowel Disease (IBD). What is the clinical management of IBD?
viii.	Write the diagnostic tests for HIV infection.
ix.	What are the different stages of alcoholic liver disease?
x.	Name the causative organism for urinary tract infection.

Section- B (2 X 10 = 20)

2.	Write in detail about the vascular events involved in the process of inflammation.
3.	Enlist the etiological agents causing cell injury. Describe the pathogenesis of reversible cell injury induced by hypoxia/ischemia.
4.	Define hypertension. Discuss the pathogenesis of essential hypertension.

Section- C (7 X 5 = 35)

5.	Explain the pathogenesis of peptic ulcer disease.
6.	Write the principles involved in cell injury by various agents.
7.	Describe the pathogenesis and diagnosis of asthma.
8.	Elaborate on the pathology of sexually transmitted diseases.
9.	Explain the various events of apoptosis.
10.	Describe the pathogenesis of type 2 diabetes mellitus.
11.	Explain the development of tuberculosis.
12.	Detail the pathogenesis of Parkinsonism.
13.	Explain the pathophysiology of congestive heart failure.

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(Morning)

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*** Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any SEVEN.

Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	Define cellular adaptation.
ii.	Explain basic principles of wound healing.
iii.	What is hypertension, and what are its types?
iv.	Write major causes of angina pectoris.
v.	What are the treatment options for megaloblastic anemia?
vi.	Write pathophysiology of schizophrenia.
vii.	What are sign and symptoms of gout?
viii.	Define apoptosis.
ix.	Write sign and symptoms of gonorrhoea
x.	What is the etiology of leprosy?

Section- B (2X10=20)

2.	What is the cell injury? Explain in detail the mechanism of cell injury.
3.	What is psychosis? Write in detail of psychiatric disorder.
4.	Write the classification, etiology and pathogenesis of cancer.

Section- C (7X5=35)

5.	Explain in detail the acidosis and alkalosis.
6.	Describe in detail the pathophysiology of chronic obstructive airways.
7.	What is the role of hypertrophy in congestive heart failure?
8.	Discuss the pathogenesis of anaemia.
9.	Explain in detail the pathophysiology of alzheimer's disease.
10.	Explain the pathogenesis of osteoporosis.
11.	Discuss alcoholic liver disease in detail.
12.	Discuss the pathogenesis of tuberculosis
13.	Give the detail note on meningitis.

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**Section- B consists of three questions, each carrying 10 marks (Long Answer Type); Attempt any two.

***Section- C consists of nine questions, each carrying 5 marks (Short Answer Type); Attempt any seven.

Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	What is a peptic ulcer, and what are its causes?
ii.	Define apoptosis and necrosis.
iii.	Outline the pathophysiological progression of jaundice.
iv.	State the basic principles of wound healing in the skin.
v.	List the factors influencing the development of hypertension.
vi.	Summarize the pathogenesis of tuberculosis.
vii.	Differentiate between Type I and Type II diabetes.
viii.	Mention the environmental factors responsible for cancer development.
ix.	Write a short note on hereditary and acquired anemia.
x.	Compare atherosclerosis and arteriosclerosis.

Section- B (2X10=20)

2.	Write an explanatory note on Parkinson's disease and hematological diseases.
3.	Discuss the different types of hepatitis and outline the pathogenesis of Hepatitis C.
4.	State the etiology and pathogenesis of asthma.

Section- C (7X5=35)

5.	Mention the morphological changes seen in cell injury.
6.	Define inflammation and state its types.
7.	List the signs and symptoms of chronic obstructive airway diseases.
8.	Define epilepsy and classify the different types of seizures.
9.	Write a short note on urinary tract infections.
10.	Outline the complications of ischemic heart disease.
11.	Define asthma with reference to its etiology and pathophysiology.
12.	Differentiate among rheumatoid arthritis, osteoporosis, and gout.
13.	Identify the diseases associated with malfunction of the thyroid gland.

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Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	Define apoptosis and mention one example.
ii.	Differentiate between hypertrophy and hyperplasia with one example.
iii.	List any two chemical mediators of inflammation.
iv.	Mention any two causes of cellular injury.
v.	List two pathophysiological features of myocardial infarction.
vi.	Mention any two symptoms of acute renal failure.
vii.	List two clinical features of iron deficiency anemia.
viii.	State two types of endocrine disorders associated with thyroid dysfunction.
ix.	Mention two types of hepatitis and their mode of transmission.
x.	Define wound healing and name two stages involved.

Section- B (2X10=20)

2.	Describe the mechanisms of cell injury. Explain reversible and irreversible injury with examples.
3.	Discuss the pathophysiology, signs, and progression of Parkinson's disease.
4.	Explain the etiology, types, clinical features, and prevention of hepatitis.

Section- C (7X5=35)

5.	Compare and contrast atrophy, hypertrophy, and hyperplasia with examples.
6.	Describe the inflammatory response with emphasis on vascular changes and WBC migration.
7.	Explain the pathogenesis of cellular injury focusing on mitochondrial and nuclear damage.
8.	Discuss the causes and clinical manifestations of chronic renal failure.
9.	Explain the hormonal imbalance and complications associated with diabetes mellitus.
10.	Differentiate rheumatoid arthritis from osteoarthritis in terms of cause and pathophysiology.
11.	Outline the stages of carcinogenesis and describe the key cancer-causing factors.
12.	List the signs and symptoms of chronic obstructive airway diseases.
13.	Outline the complications of ischemic heart disease.

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