

**B. PHARM**  
**SECOND SEMESTER**  
**PATHOPHYSIOLOGY**  
**BP204T**

(USE SEPARATE ANSWER SCRIPTS FOR OBJECTIVE & DESCRIPTIVE)

Duration: 3 hrs.

Full Marks: 75

Time: 20 min.

( PART-A: Objective )

Marks: 20

*Choose the correct answer from the following:*

*1×20=20*

1. Potent mediators of inflammation and metabolites are formed from \_\_\_\_\_
  - a. Arachidonic acid
  - b. Hydrochloric acid
  - c. Acetic acid
  - d. None of the above
2. What is the range in pre hypertensive diastolic blood pressure?
  - a. 80-89 mm Hg
  - b. 70-89 mm Hg
  - c. 120-139 mm Hg
  - d. None of these
3. Which enzyme converts angiotensinogen to angiotensin-I?
  - a. Renin
  - b. ACE
  - c. ACE inhibitor
  - d. None
4. A blood clot in the blood vasculature at the site of atherosclerosis resisting the flow of blood is known
  - a. Embolus
  - b. Thrombus
  - c. Atherosclerosis
  - d. None
5. Asthma due to smoke is \_\_\_\_\_ asthma.
  - a. Atopic
  - b. Intrinsic
  - c. Extrinsic
  - d. Nocturnal
6. Which of the following is not a modifiable risk factors of CAD?
  - a. Hyperlipidaemia
  - b. Ageing
  - c. Diabetes mellitus
  - d. Obesity
7. Syphilis is caused by \_\_\_\_\_.
  - a. Salmonella typhi
  - b. Both A&B
  - c. Treponema pallidum
  - d. None
8. Which of the following is not a surgical management of cardiac heart failure?
  - a. Coronary angioplasty
  - b. Coronary stent
  - c. Cardiac tubectomy
  - d. Atherectomy
9. Irreversible cell injury in cell is due to
  - a. Altered functional demand
  - b. Subcellular accumulation
  - c. Severe stress
  - d. None
10. Which of the following action is performed by Histamine?
  - a. Vasodilation
  - b. Increased permeability
  - c. Dolor
  - d. All of these

11. Which of the following statement is not true for alkalosis?
  - a. Blood pH rises
  - b. Increase in bicarbonate levels
  - c. Sodium Chloride
  - d. None of the above
12. Cellular swelling results from
  - a. Due to leakage in Plasma membrane
  - b. Due to inactivation of Na/K ATPase pump
  - c. Due to depletion of ATP
  - d. All of these
13. Symptoms of Rheumatoid arthritis are
  - a. b, c & d
  - b. Joint pain
  - c. Swelling
  - d. fatigue
14. Drug not used in the treatment of gout is \_\_\_\_
  - a. Sulfasalazine
  - b. Colchicine
  - c. NSAID
  - d. Prednisolone
15. Which of the following is a cancer of the connective tissue?
  - a. Leukemia
  - b. Sarcoma
  - c. Carcinoma
  - d. All of these
16. How many types of Hepatitis are there?
  - a. 2
  - b. 5
  - c. 3
  - d. 6
17. The obstruction in the flow of bile is which type of Jaundice?
  - a. Pre-hepatic Jaundice
  - b. Neonatal Jaundice
  - c. Post-hepatic Jaundice
  - d. Prolonged Jaundice
18. Enlargement of organ is related to
  - a. Hypertrophy
  - b. Hyperplasia
  - c. Both a & b
  - d. None
19. Lack of use of organ leads to
  - a. Hypertrophy
  - b. Hyperplasia
  - c. Metaplasia
  - d. Atrophy
20. Metaplasia results from
  - a. Displacement of cells
  - b. Replacement of cells
  - c. Adaptation
  - d. Both b & c

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**( PART-B : Descriptive )**

Time: 1 hr. 40 minutes

Marks : 35

[ *Answer any seven (7)* ]

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|---|-----------|
| 1. Mention any four possible causes of asthma and describe the pathogenesis.                            | 5         |
| 2. Define:<br>systolic blood pressure, diaphoresis, dyspnea, atherosclerosis and azotemia.              | 5         |
| 3. Write a note on the pathophysiology of AIDS.   | 5         |
| 4. Discuss the pathogenesis of acute and chronic renal failure.   | 2.5+2.5=5 |
| 5. Elucidate calcification.   | 5         |
| 6. Write the classification and pathogenesis of Cancer.   | 2.5+2.5=5 |
| 7. What is Jaundice? Discuss the various types.   | 1+4=5     |
| 8. Write a note on acidosis.  | 1+4=5     |
| 9. What is feedback system? Name its basic components. Describe negative feedback system with examples. | 1+4=5     |

Time : 1 Hr.

Marks : 20

[ *Answer any two (2)* ]

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|--|----------|
| 1. Mention two causes each of systolic and diastolic dysfunction and describe pathogenesis of cardiac heart failure. | 1+1+8=10 |
| 2. Mention the types of cell injury. Discuss mitochondrial damage in details with suitable diagram.                  | 2+8=10   |
| 3. Write a note on acute inflammation. Mention any test to diagnose AIDS.  | 9+1=10   |

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