

[Total No. of Questions - 14] [Total No. of Printed Pages - 2]  
(2064)

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B. Pharmacy 4th Semester Examination

Pathophysiology (N.S.)

BP-245

Time : 3 Hours

Max. Marks : 70

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt any two questions from Section-A, eight questions from Section-B. Section-C is compulsory, attempt all questions.

**SECTION - A**

1. Discuss causes and mechanism of atrophy & hypertrophy. Highlight the significance of these cellular adaptations with examples. (10)
2. Explain leukocyte adhesion and transmigration during inflammation. Highlight the role of adhesion molecules in inflammatory response. (10)
3. Discuss pathology of hypertension in detail. Highlight the role of RAS and vasoactive amines. (10)

**SECTION - B**

4. What are tophi? Give its role in pathology of gout. (5)
5. Discuss role of fibrofatty plaque in pathogenesis of angina & myocardial infraction. (5)
6. What are seizures? What are various events responsible for triggering of epileptic attack? (5)

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7. Discuss physiological role of thyroid hormones. What are the consequences of hypothyroidism? (5)
8. Discuss role of H.pylori in the development of peptic ulcer. (5)
9. Discuss pathogenesis of type II diabetes. (5)
10. Discuss different factors responsible for pathological progresses of psychosis. (5)
11. Differentiate benign & malignant tumor. Discuss biology of tumor growth in brief. (5)
12. "Asthma: A disease of humoral imbalance". Explain. (5)
13. Discuss etiology of hepatic disorders. (5)

#### SECTION - C

14. Write short notes on–
  - (a) Ulcerative colitis (2)
  - (b) AIDS (2)
  - (c) Serotonin (2)
  - (d) Hepatitis A (2)
  - (e) CHF (2)