



JP-1612040701030400 Seat No. _____

**Master of Pharmacy Management (Sem. III)
(CBCS) Examination**

August/September - 2019

Pathophysiology

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Attempt three questions from each section.
(2) Questions 1 and 5 are compulsory.
(3) Figure to the right indicates full marks for the respective question.

SECTION - I

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|----------|--|-----------|
| 1 | Answer the following questions (Any SEVEN) | 14 |
| | (1) Explain: Cell proliferation. | |
| | (2) Define: Necrosis. | |
| | (3) Explain: Angiogenesis. | |
| | (4) Define: Pathophysiology. | |
| | (5) Explain: Hypertrophy. | |
| | (6) Differentiate exudate & transudate. | |
| | (7) Write the source of Vitamin D. | |
| | (8) Write the antibodies found in systemic lupus erythematosus. | |
| | (9) Symptoms of Marasmus. | |
| | (10) BMI. | |
| 2 | (1) Write the vascular events in pathophysiology of Inflammation. | 7 |
| | (2) What is Apoptosis? Explain Necrosis in detail. | 6 |
| 3 | (1) Write a short note on Wound Healing | 7 |
| | (2) Discuss Type IV hypersensitivity reaction. | 6 |
| 4 | (1) Give the type of Cellular Adaptations. Explain Metaplasia in detail. | 7 |
| | (2) Explain the type of Cell injury. Explain the causes of Cell injury. | 6 |

SECTION - II

- 5** Answer the following questions : (any **two**) **14**
- (1) Explain roles and components of ECM.
 - (2) Write a detailed note on pathophysiology and complications of obesity.
 - (3) Write a short note on Fibrosis.
- 6** (1) Explain chemical mediators and inflammation. **7**
- (2) Explain various detrimental biological effects of Ionizing radiation. **6**
- 7** (1) Write a short note on AIDS. **7**
- (2) Write a short note on allographic rejection. **6**
- 8** (1) Write the sources, function and deficiency symptoms of Vitamin K. **7**
- (2) Write types of nutritional deficiencies. Write metabolic changes associated with starvation. **6**
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