

Enrolment No. _____

B. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2014

Date: 29-12-2014

Total Marks: 80

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- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

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|-------------|-----|---|-----------|
| Q.1 | (a) | Explain the terms:
1. Atrophy 2. Natural killer cell 3. Metaplasia
4. Dystrophic calcification 5. MHC molecule 6. Xenograft | 06 |
| | (b) | Explain in brief about pathogenesis of reversible cell injury due to hypoxia/ischaemia. | 05 |
| | (c) | Write a note on types of necrosis. | 05 |
| Q.2 | (a) | What is apoptosis? Explain in brief about molecular mechanism of apoptosis. | 06 |
| | (b) | Explain in detail about pathogenesis of HIV infection. | 05 |
| | (c) | Write a note on etiology and pathogenesis of obesity. | 05 |
| Q.3 | (a) | Define hypersensitivity. Write in detail about Type I (anaphylactic) hypersensitivity. | 06 |
| | (b) | Explain in brief about mechanism of allograft rejection. | 05 |
| | (c) | Write a note on pathogenesis of amyloidosis. | 05 |
| Q.4 | (a) | Enlist various autoimmune diseases. Write a note on etiology and pathogenesis of systemic lupus erythematosus (SLE). | 06 |
| | (b) | Explain in brief about granulomatous inflammation. | 05 |
| | (c) | Write a note on pathogenesis of autoimmunity. | 05 |
| Q.5 | (a) | Define inflammation. Write in detail about cellular events occur in acute inflammation. | 06 |
| | (b) | Explain in detail about pathogenesis of free radical mediated cell injury due to hypoxia/ischaemia. | 05 |
| | (c) | Give difference between kwashiorkor and marasmus. | 05 |
| Q. 6 | (a) | What is healing? Write in detail about sequence of events in primary union of skin wounds. | 06 |
| | (b) | Write in detail about components of extracellular matrix (ECM). | 05 |
| | (c) | Write a note on fatty liver. | 05 |
| Q.7 | (a) | Enlist cell derived mediators of acute inflammation. Write a note on cytokines. | 06 |
| | (b) | Explain in detail about disorders related to deficiency of water soluble vitamins. | 05 |
| | (c) | Discuss in brief about biological effects of radiation. | 05 |
