

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

# GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm-Semester-III May-2012 Examination

Subject code:230005

Subject Name: Pathophysiology

Time: 2:30pm to 5:30pm

Date: 14-05-2012

Total Marks: 80

## Instructions:

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

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|-------------|--|-----------|
| <b>Q.1</b>  | (a) Write causes of cell injury. Explain acquired causes of cell injury.                         | <b>06</b> |
|             | (b) Differentiate term atrophy ad hypertrophy. Explain pathologic hypertrophy.                   | <b>05</b> |
|             | (c) Explain apoptosis and its significance.  | <b>05</b> |
| <b>Q.2</b>  | (a) Enlist chemical mediators of inflammation. Explain systemic effects of chronic inflammation. | <b>06</b> |
|             | (b) Write pathogenesis of reversible cell injury.  | <b>05</b> |
|             | (c) Write a note on chemotaxis.  | <b>05</b> |
| <b>Q.3</b>  | (a) Explain the mechanisms of rejection of allografts in hosts.                                  | <b>06</b> |
|             | (b) Write pathogenesis of Systemic Lupus Erythematosus.  | <b>05</b> |
|             | (c) Explain pathogenesis of AIDS.  | <b>05</b> |
| <b>Q.4</b>  | (a) Explain sequence of events in wound healing by secondary union process.                      | <b>06</b> |
|             | (b) Discuss in general cell and tissue regeneration aspects.                                     | <b>05</b> |
|             | (c) Write a note on carbon monoxide poisoning.   | <b>05</b> |
| <b>Q.5</b>  | (a) Explain in general pathogenesis of amyloidosis.  | <b>06</b> |
|             | (b) Explain pathogenesis of fatty lever.   | <b>05</b> |
|             | (c) Write pathogenesis of autoimmunity.  | <b>05</b> |
| <b>Q. 6</b> | (a) What is environmental pollution. Write a note on air pollution.                              | <b>06</b> |
|             | (b) Write biological effects of radiation.   | <b>05</b> |
|             | (c) Explain vitamin B <sub>12</sub> deficiency.  | <b>05</b> |
| <b>Q.7</b>  | (a)  | <b>06</b> |
|             | Write types of nutritional deficiencies. Write metabolic changes associated with starvation.     |           |
|             | (b) Write pathogenesis of obesity.   | <b>05</b> |
|             | (c) Write a note on hypersensitivity   | <b>05</b> |

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