

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Pathophysiology

Subject Code: 4PS03PAT1

Branch: B.Pharm

Semester: 3

Date: 10/12/2018

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
-

Q-1 Answer the following term:

- | | |
|--|------|
| a) Define apoptosis and necrosis | (02) |
| b) Define hypertrophy and hyperplasia | (02) |
| c) Define intracellular and extracellular fluid | (02) |
| d) What is cell injury? | (01) |
| e) Define antigen and antibody | (02) |
| f) What is chemotaxis? | (01) |
| g) Which mediators are responsible for Inflammation? | (01) |
| h) Define immunity | (01) |
| i) What is cell proliferation | (01) |
| j) What is calcification? | (01) |

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions

- | | |
|--|-----|
| a) Describe mechanism behind chronic inflammation. | (7) |
| b) Enlist the chemical mediators involve in acute inflammation. Give the flowchart of arachidonic acid metabolism. | (7) |

Q-3 Attempt all questions

- | | |
|--|-----|
| a) Describe molecular mechanism behind apoptosis. | (7) |
| b) Describe cellular events involve in acute inflammation. | (7) |

Q-4 Attempt all questions

- | | |
|--|-----|
| a) Classify hypersensitivity reaction. Describe in details about Type-I and Type-II hypersensitivity reaction. | (7) |
| b) Describe in details about cell mediated immunity and allograft rejection. | (7) |

Q-5 Attempt all questions

- | | |
|---|-----|
| a) What is intracellular accumulation? Explain about fatty liver. | (7) |
| b) Classify cell injury. Describe reversible cell injury. | (7) |

Q-6 Attempt all questions

- | | |
|--|-----|
| a) Describe wound healing process. | (7) |
| b) Enlist autoimmune diseases. Describe in details about pathogenesis of systemic lupus erythematosus. | (7) |



Q-7

Attempt all questions

- a) Discuss in general cell and tissue regeneration aspects. (7)
- b) Enlist communicable and non-communicable diseases. Write the concept of causation of diseases. (7)

Q-8

Attempt all questions

- a) What is radiation? Describe in detail about biological effects of radiation. (7)
- b) Classify the source of air pollutants. Describe in details about CO₂ and SO₂. (7)

