

UKA TARSADIA UNIVERSITY

B.Pharm. (4th Semester)

Subject :030020405-Pathophysiology and Health Education

Time : 10:00 am to 1:00 pm

Duration : 3 Hours

Date : 12/12/2013

Max. Marks : 70.

Instructions:

1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks allocated to that question.
5. Draw diagrams/figures whenever necessary.

SECTION - 1

Q-1 (A) Do as directed.

[07]

- I) Define angiogenesis
- II) Enlist processes involved in healing of skin wounds
- III) Define hypoplasia
- IV) Enlist the causes of cell injury
- V) Define Repair
- VI) Enlist Sequential vascular events of acute inflammation
- VII) Enumerate chemical mediators involved in inflammation

Q-1 (B) Answer the following in brief. (Any 4)

[08]

- I) Give significance of metaplasia
- II) Differentiate cell death associated with necrosis and Apoptosis
- III) Differentiate between reversible cell injury and irreversible cell injury
- IV) Enlist the physiological and pathological causes of atrophy.
- V) Explain apoptosis
- VI) Enumerate cellular events in acute inflammation.

Q-2 Answer the following.

[10]

- A) Write a note on cells involved in chronic inflammation

OR

- A) Explain sequence of events in wound healing by secondary union process.
- B) Compare and contrast the various forms of cellular adaptation. What is the purpose of these adaptive changes?

OR

- B) Describe the growth factors involved in tissue repair.

Q-3 Answer the following in detail. (Any 2)

[10]

- A) Write note on Dystrophic calcification
- B) Write note on Cellular events of acute inflammation
- C) Explain biochemical mechanism of cell injury due to ATP depletion

SECTION - 2

Q-4 (A) Define following

[07]

- I) Toxoid
- II) Attenuated vaccine
- III) Hansen's disease
- IV) Communicable disease
- V) Anaphylaxis
- VI) Antigen
- VII) Enlist immunoglobulin

Q-4 (B) Answer the following in brief. (Any 4)

[08]

- I) Enumerate the different methods of contraception
- II) Differentiate between Active and Passive immunity
- III) Explain Type IV hypersensitivity reaction
- IV) Differentiate between Kwashiorkor and marasmus.
- V) Explain the prevention and control of tuberculosis
- VI) Explain the causative agent and mode of transmission of amoebiasis

Q-5 Answer the following.

[10]

- A) Discuss the pathogenesis, clinical manifestations and diagnosis of AIDS

OR

- A) Define obesity. Explain the etiology, pathophysiology & metabolic changes that take place in obesity
- B) Classify hypersensitivity reactions. Explain the mechanism involved in the Type I (anaphylactic) hypersensitivity

OR

- B) Explain in detail about Vitamin B12 deficiency

Q-6 Write short note on following. (Any 2)

[10]

- A) Protein energy malnutrition
- B) Systemic lupus erythromatous
- C) Nutritional diseases