

# 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 erythematous
- C) Nutritional diseases