

UKA TARSADIA UNIVERSITY
First Semester Examination -2011
Subject: 030020106 Human Anatomy Physiology and Health Education- I

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.
5. Draw diagrams/figures whenever necessary.

Section-1

Q.1 [A] Explain following terms. [07]

- | | | |
|-----------------|------------------|--------------|
| I] Phagocytosis | II] Hemopoiesis | III] Anaemia |
| IV] ESR | V] Transcription | VI] Meiosis |
| VII] Apoptosis | | |

[B] Describe in brief. (Any four) [08]

- I] Structure of synovial joints
- II] Facilitated diffusion
- III] Mitochondria
- IV] Structure of bone
- V] Plasma protein
- VI] Disorder of bones

Q.2 Answer the following [10]

A] Describe cell and its organelle

OR

A] Classify joints and write a detail note on Synovial Joint

B] Describe Hemopoiesis

OR

A] What is Epithelial tissue? Describe it in detail.

Q.3 Describe in detail (Any two) [10]

- A] Write a detailed note on physiology of Muscle contraction
- B] Write note on Blood group
- C] Function of blood

Section-2

Q-4 (A) Do as directed:

[07]

- I) What is systemic circulation?
- II) Enlist the components of antibody-mediated immunity
- III) Name the veins that enter the right atrium.
- IV) Enlist different classes of immunoglobulins.
- VI) Enlist the components of cardiac conduction pathway
- VII) Name vein carrying oxygenated blood

(B) Answer the following in brief: (Any 4)

[08]

- I) Differentiate between cell-mediated and antibody-mediated immunity
- II) Define systole, diastole, and cardiac cycle
- III) Explain functions of Lymph
- IV) What is the composition of Pancreatic juice?
- VI) Explain how a vaccine provides protective immunity in terms of first and second exposures to a pathogen.

Q-5 Answer the following:

[10]

A) How B. P. is regulated? Give the significance of renin-angiotensin system for the same.

OR

A) Draw labeled diagram of liver and discuss the physiology of Liver.

B) Draw a labeled diagram of heart. Define cardiac output and enlist factor affecting it

OR

B) Classify white blood cells and describe the function of each.

Q-6 Answer the following in detail. (Any 2)

[10]

A) Write note on Spleen

B) Discuss the different phases of gastric acid secretion.

C) Enlist the factors of coagulation. Explain mechanism of blood coagulation