

# UKA TARSADIA UNIVERSITY

B.Pharm. (1st Semester)

Subject :030020104-Principle of Human Anatomy Physiology - I

Time : 10:00 am to 1:00 pm

Duration : 3 Hours

Date : 28/12/2013

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) What do you mean by Hemostasis?
- II) What is tissue? Enlist different types of tissue.
- III) Define: Agglutination.
- IV) Which is the common intramuscular injection site in human lower limb?
- V) Write the function of ribosomes present in eukaryotic cell.
- VI) Define: Histology.
- VII) "Mitochondria are known as the power house of a cell." – Justify.

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

[08]

- I) Write a note on plasma membrane.
- II) Write about carrier mediated transport process.
- III) Describe in brief about different types of cartilages.
- IV) Draw the labeled diagrams of neutrophil and monocyte.
- V) Describe anaemia.
- VI) Distinguish between skeletal muscle and smooth muscle.

### Q-2 Answer the following.

[10]

- A) Explain cell cycle in detail.

OR

- A) Distinguish between the ABO and Rh blood groups with suitable diagrams.
- B) Define joint. Write a note on synovial joint.

OR

- B) Write a note on physiology of muscle contraction.

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

[10]

- A) Explain the sequence of events in the process of translation.
- B) Describe various types of connective tissue in detail.
- C) Enlist various clotting factors. Explain about platelet plug formation.

## SECTION - 2

### Q-4 (A) Do as directed.

[07]

- I) Define: Innate immunity.
- II) Write the names of three major salivary glands.
- III) Which blood vessels deliver blood to the right and left atria?

- IV) Define: Peptic ulcer.
- V) What do you mean by cardiac output?
- VI) Enlist organs involved in lymphatic system.
- VII) Write the function of gall bladder.

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

**[08]**

- I) Write a note on pancreas.
- II) Describe characteristics of Ig G and Ig M.
- III) Draw a labeled diagram of Heart.
- IV) Discuss different enzymes involved in process of digestion.
- V) Write a note on thymus gland.
- VI) Enlist factors affecting heart rate.

**Q-5 Answer the following.**

**[10]**

- A) What is blood pressure? Give the significance of renin-angiotensin system in controlling the blood pressure.

**OR**

- A) Describe in detail various phases of digestion.
- B) Differentiate between Cell mediated and Humoral Immunity.

**OR**

- B) Enlist the various accessory organs of GIT. Discuss in detail about Liver.

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

**[10]**

- A) Write a note on ECG.
- B) Discuss the histology of stomach with suitable diagram.
- C) Explain in brief about Reticulo-endothelial system.