

Seat No. \_\_\_\_\_

**UKA TARSADIA UNIVERSITY**

**B. Pharm Sem-I Examination Nov/Dec. 2012**

**Subject: 030020104 - Principle of Human Anatomy Physiology I**

**Duration: 3 Hours**

**Max. Marks: 70**

**Date:**

**Time:**

**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) Do as directed [07]**

- I) Enlist four primary types of tissues.
- II) What do you mean by articulation?
- III) Enumerate components of blood
- IV) What is osseous system?
- V) Enlist three types of muscular tissues
- VI) Write normal haemoglobin (Hb) content of the human body
- VII) Define Osteoporosis

**Q-1 (B) Answer the following in brief: (any 4) [08]**

- I) "Mitochondria is the powerhouse of cell." Comment
- II) Draw the labeled diagram of cell
- III) Write in short on Plasma proteins.

- IV) Write about facilitated diffusion
- V) Differentiate the following: Bone and Cartilage
- VI) How haemoglobin is synthesized in body

**Q-2 Answer the following** **[10]**

A) Differentiate between Skeletal and Cardiac muscle

OR

A) Describe the mechanism of protein synthesis by cell organelles

B) Write about composition of bone and functions of skeleton.

OR

B) Discuss functions of Blood.

**Q-3 Answer the following in detail: (any 2)** **[10]**

A) Explain the process of blood coagulation.

B) Classify joints with example? Add a note on synovial joint.

C) Describe changes during different phases of cell cycle. Draw suitable diagrams.

## Section-2

**Q-1 (A) Do as directed** **[07]**

- I) What do you mean by Automaticity?
- II) Enlist various parts of small intestine
- III) Define Immunity
- IV) Define Electrocardiogram (ECG)
- V) What is Peptic ulcer?
- VI) Define antibodies
- VII) What is Lymphangitis?

**Q-1 (B) Answer the following in brief: (any 4) [08]**

- I) Give functions of Gastric juice
- II) Explain acquired immunity.
- III) Explain the following terms : (1) Cardiac Output (2) Angina Pectoris
- IV) Explain in brief the Reticulo-endothelial System
- V) Write in brief about Spleen
- VI) Define the following: (1) Lymphoma (2) Lymphosarcoma

**Q-2 Answer the following [10]**

A) What is Blood Pressure? Discuss its significance and methods of measurement.

OR

- A) Write composition and functions of Lymph.
- B) Draw a labeled diagram of digestive system.

OR

B) Define Immunity? Explain the Innate and adaptive Immunity.

**Q-3 Answer the following in detail: (any 2) [10]**

- A) How does digestion take place in intestine?
- B) Define Cardiac cycle. Describe each event in detail.
- C) Differentiate between Cell mediated and Humoral Immunity

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