

Roll No.

Total No. of Pages : 02

Total No. of Questions : 10

**B.Pharma (2011 to 2016) (Sem.2)**  
**ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION-I**

Subject Code : BPHM-204

Paper ID : [D1115]

Time : 3 Hrs.

Max. Marks : 80

**INSTRUCTION TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **FIFTEEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **FOUR** questions carrying **TEN** marks each and students have to attempt any **THREE** questions.

**SECTION-A**

**1. Answer briefly :**

- a) Why RBC's are biconcave in shape?
- b) Rheumatoid arthritis
- c) Sutures
- d) Nucleus
- e) Osteoblasts
- f) The role of troponin tropomyosin in skeletal muscle contraction.
- g) Stroke volume
- h) Smooth endoplasmic reticulum.
- i) What is the normal platelet count? In which viral disease its number markedly gets decreased?
- j) Name two locations where simple squamous epithelium is present.
- k) Electrocardiogram
- l) ABO blood typing
- m) Mitochondria

- n) Malaria
- o) Agranulocytes

### **SECTION-B**

2. Briefly discuss the causative agents, modes of transmission of poliomyelitis and AIDS.
3. Discuss the following :
  - a) Function of thymus
  - b) Hypertension
4. Define cardiac output. Outline the flow of blood through the chambers of the heart and through the systemic and pulmonary circulation.
5. Draw a well labelled diagram of a :
  - a) Neuron
  - b) Cell membrane
6. Differentiate between cardiac muscle tissue and smooth muscle tissue.

### **SECTION-C**

7. Describe the process of skeletal muscle contraction starting from events occurring at neuromuscular junction.
8. Classify and describe epithelial tissues. What are the characteristics of epithelial tissues in general?
9. Define blood pressure. Discuss the neural and renal regulation of blood pressure.
10. Write a note on :
  - a) Synovial joint
  - b) Rh factor incompatibility