

B.Pharm 2nd Semester Exam., 2018

**ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION—I**

Time : 3 hours

Full Marks : 70

Instructions :

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No **1** is compulsory.

1. Answer the following questions (any seven) :

2×7=14

(a) What is the main function of mitochondria?

(b) Write the function of nucleus.

(c) Define neuron.

(d) Give two examples of hinge joint.

(e) What is the normal blood pressure and blood volume in a healthy human being?

(f) What is the principal function of platelet?

(g) What is SA-node?

(h) What do you mean by the term 'diastole'?

(i) Define serum.

(j) What is the key role of Golgi complex?

2. Describe the following in brief : 5+4+5=14

(a) Congestive heart failure

(b) Gout

(c) Rheumatoid arthritis

3. Define tissue. Classify various tissues of the body and explain simple epithelial tissue in detail. 14

4. Draw a neat diagram of human cell. Discuss in detail about active transport. 14

5. Answer the following questions : 10+4=14

(a) Discuss the disorders of lymphatic system.

(b) Describe the structure and functions of a lymph node.

6. Answer the following questions : 7+7=14

(a) Explain the physiology and functions of spleen.

(b) What are different types of blood groups and what is its significance?

7. Answer the following questions : 10+4=14

(a) Describe the structure of synovial joint and discuss its types.

(b) Describe the origin of various heart sounds.

8. Answer the following questions : 9+5=14

(a) Describe the mechanism of coagulation of blood.

(b) Describe the structure and function of endoplasmic reticulum.

9. Answer the following questions : 7+7=14

(a) Explain the mechanism of muscle contraction.

(b) Describe, in detail, the generation of action potential in SA-node.
