



**P-16112030701010300**

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

**M. P. M. (Sem. I) (CBCS) Examination**

**July - 2018**

**Human Anatomy & Physiology - I**

**(New Course)**

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Answer any three from each section except question 1 and 5 are compulsory.  
(2) Figure to the right indicates full marks.  
(3) Draw neat and clean diagram when required.

**SECTION – I**

**1 Answer the following questions : (any seven) 7×2=14**

- (1) Define the following terms :
  - (a) Regurgitation
  - (b) Epidemiology
- (2) Write structural composition of lipid bilayer of cell membrane.
- (3) Define : Acquired immunity.
- (4) How Skeletal muscles and Cardiac muscles differ from each other ?
- (5) What is blood group ?
- (6) Give functions of platelets.
- (7) Briefly explain about Peptic Ulcers.
- (8) Give difference between Active transport and Passive transport.
- (9) Enumerate different systems of human body.
- (10) Give composition and functions of plasma.

**2 Answer the following questions : 13**

- (a) Classify bones. Write a short note on synovial joints. **7**
- (b) Enumerate various bones of the skull, Upper-limbs and vertebra. **6**

- 3** Answer the following questions : **13**
- (a) Enlist various types of tissues. Write a detailed note on connective tissues. **7**
- (b) Define immunity ? Differentiate active and passive immunity. **6**
- 4** Answer the following questions : **13**
- (a) Draw neat and labeled diagram of cell. Give functions of mitochondria and lysosome. **7**
- (b) Write a short note on cell cycle and its significance. **6**

## SECTION – II

- 5** Answer any **two** questions from the following : **2×7=14**
- (a) Explain in detail about blood clotting process.
- (b) Draw neat and clean diagram of heart and describe in detail about circulation of blood in heart.
- (c) Describe in details about various functions of Liver.
- 6** Answer the following questions : **13**
- (a) Write a short note on neuromuscular junction. **7**
- (b) Write a brief note on following disorders : **6**
- (a) Migraine
- (b) Rheumatoid arthritis
- 7** Answer the following questions : **13**
- (a) Explain the physiology of muscle contraction with suitable diagram. **7**
- (b) Draw neat and clean labeled diagram of digestive system. **6**
- 8** Answer the following questions : **13**
- (a) Define and classify Allergy. Discuss features of various types of Allergy. **7**
- (b) Write a detailed note on role of pancreas in digestive system. **6**