



**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**

<b>1</b>	Answer the following questions : (any <b>seven</b> )	<b>7×2=14</b>
(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.	
<b>2</b>	Answer the following questions :	<b>13</b>
(a)	Classify bones. Write a short note on synovial joints.	<b>7</b>
(b)	Enumerate various bones of the skull, Upper-limbs and vertebra.	<b>6</b>

**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 :  
(a) Migraine  
(b) Rheumatoid arthritis

**7** Answer the following questions : **13**  
(a) Explain the physiology of muscle contraction with suitable diagram.  
(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**