



MV-1612030701010300 Seat No. _____

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

January - 2018

Human Anatomy & Physiology - I

Time : **3** Hours]

[Total Marks : **80**

- Instructions :** (1) Attempt three questions from each section.
(2) Questions 1 and 5 are compulsory.
(3) Figure to the right indicates full marks for the respective question.

SECTION - I

- 1** Answer the following questions : (any seven) **14**
- (1) Define: Regurgitation
 - (2) Define: Epidemiology
 - (3) Define: Acquired immunity
 - (4) Give the function of Lymph.
 - (5) Enumerate different systems of human body.
 - (6) Give functions of platelets.
 - (7) Differentiate between: Active transport and Passive transport.
 - (8) Differentiate between: Skeletal muscle and Cardiac muscle.
 - (9) Give composition and function of plasma.
 - (10) Explain: Allergy.
- 2** (1) Enumerate various processes that transport substances across the plasma membrane. Describe in detail active transport process. **7**
- (2) Write a note on Mitochondria. **6**
- 3** (1) What are different types of epithelial tissues and describe them in detail. **7**
- (2) Write a short note on Mitosis. **6**

- 4 (1) Explain the physiology of muscle contraction with suitable diagram. 7
- (2) Draw a structure of Digestive system of human body and explain in detail. 6

SECTION - II

- 5 Answer the following questions : (any two) 14
- (1) What is blood ? Enumerate various components and functions of blood.
- (2) Explain in detail the mechanism of blood clotting.
- (3) What is blood group? Classify blood groups.
- 6 (1) What is immunity ? Differentiate active and passive immunity. 7
- (2) Describe in details about various functions of Liver. 6
- 7 (1) Draw a standard ECG graph and discuss in detail. 7
- (2) Write a detailed note on Synovial joints. 6
- 8 (1) Draw neat and clean diagram of heart and describe in detail about circulation of blood in heart. 7
- (2) Write a note on Spleen. 6
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