



J-014-1041001 Seat No. _____
M. P. M. (Sem. I) (CBCS) Examination
June / July - 2019
Human Anatomy & Physiology - I

Faculty Code : 014
Subject Code : 1041001

Time : 3 Hours] [Total Marks : 75

Instruction : Figure to the right indicates full marks for the respective question.

1 Answer the following questions : **$10 \times 2 = 20$**

- (1) Explain: Allergy
- (2) Give composition and function of serum.
- (3) Draw the neat and clean diagram of Animal cell.
- (4) Give the function of Blood.
- (5) Enumerate different systems of human body.
- (6) Give functions of Lymph.
- (7) Differentiate between: Active transport and Passive transport.
- (8) Differentiate between: Skeletal muscle and Cardiac muscle.
- (9) Define: Epidemiology
- (10) Define: Regurgitation

2 Answer the following questions : (any two) **$2 \times 10 = 20$**

- (1) Enumerate various processes that transport substances across the plasma membrane. Describe in detail active transport process and phagocytosis.
- (2) What is blood? Enumerate various components and functions of blood. Write a detailed note on Blood groups.
- (3) Draw neat and clean diagram of heart and describe in detail about circulation of blood in heart.

3 Answer the following questions : (any seven) 7×5=35

- (1) What are different types of epithelial tissues and describe them in detail.
- (2) Write a short note on Mitosis.
- (3) Write a detailed note on Synovial joints.
- (4) Explain the physiology of muscle contraction with suitable diagram.
- (5) Write a physiology of Vision.
- (6) Describe cranial nerves in detail.
- (7) Draw a standard ECG graph and discuss in detail.
- (8) Explain in detail the mechanism of blood clotting.
- (9) Write a note on Mitochondria.
