



MS-014-1041001 Seat No. _____
M. P. M. (Sem. I) (CBCS) Examination
January – 2018
Human Anatomy & Physiology – I
(BP-101 T)

Faculty Code : 014
Subject Code : 1041001

Time : 3 Hours]

[Total Marks : 75

Instructions :

- (1) Figure to the right indicates full marks.
- (2) Draw neat and clean diagram wherever required.

- 1 Answer the following questions : **10×02=20**
- a) Define : A. Mitosis B. Meiosis
 - b) Differentiate Somatic and Reproductive Cell Division.
 - c) Explain 'Referred Pain'.
 - d) Draw neat and labelled diagram of lymphatic vessel.
 - e) Write structural composition of lipid bilayer of cell membrane.
 - f) Enumerate organs which constitute the lymphatic system.
 - g) Differentiate between : Active transport and Passive transport.
 - h) Give functions of RBCs.
 - i) What is CCF ?
 - j) Name three smallest bones in human body.

2 Answer any **two** out of the following : **02×10=20**

- a) Draw neat and labeled diagram of Heart. Explain in detail about Cardiac Cycle and Pulmonary Circulation.
- b) Describe the structure of cell membrane with appropriate diagram. Give functions of mitochondria and nucleus.
- c) Describe in detail about basic life process of human being.

3 Answer any **seven** out of the following : **07×05=35**

- a) Explain in brief about cell cycle.
- b) Enumerate different cranial nerves. Give significance of any two.
- c) Draw neat and labeled diagram of internal anatomy of ear.
- d) Define feedback system. Write a short note on negative feedback system.
- e) Explain in detail about blood clotting mechanism.
- f) Classify tissues. Draw neat and labeled diagram of a neuron.
- g) Explain in detail about levels of structural organization of human body.
- h) Enumerate various bones of the skull, lower limbs and vertebra.
- i) Write a short note on synovial joints.
