

# B.P.T. [1<sup>st</sup> Prof.]

BF/2009/11

## Physiology

M.M. : 90

Time : 3 Hours

### SECTION - A

*All questions are compulsory. Answer to each question upto 5 lines in length. Each question carries 2 Marks.* [20]

1. Acromegaly.
2. Pulse.
3. Muscle Spindle.
4. Calmodulin.
5. Motor Unit.
6. Bile salts.
7. Pupillary reflexes.
8. Isometric and isotonic muscle contraction.
9. Macrophage.
10. End diastolic volume.

### SECTION – B

*Attempt any 8 questions. Answer to each question upto 2 pages in length. Each questions carries 5 Marks.* [40]

1. Glomerular filterate.
2. Upper motor and lower motor lesions.
3. Circulatory changes during exercise.
4. Transport of Oxygen.
5. Adrenal Medulla.
6. Sensory tracts.
7. Hypoxia.
8. Organ of corti.
9. Conduction of impulse in Heart.
10. Volumes and capacities of lungs.
11. Coronary circulation.
12. Structures and functions of skin.

### SECTION – C

*Attempt any 2 questions. Answer to each question upto 5 pages in length. Each questions carries 15 Marks.* [30]

1. Draw a labelled diagram of Neuromuscular junction and describe the mechanism of Neuromuscular transmission.
2. What is hemostasis. Describe the mechanism of blood coagulation in detail.
3. Describe digestion and absorption of Carbohydrates in Gastro intestinal tract.
4. Describe structure and functions of cell organelle with the help of a labeled diagram.

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