



JO-1612030701010300

Seat No. _____

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

August / September – 2019

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.
- (4) Draw neat and clean diagram wherever required.

SECTION - I

- 1 Answer the following : (any **seven**) **7×2=14**
 1. Homeostasis
 2. Nerve cell
 3. Synovial joint
 4. Osteoporosis
 5. Actin and Myosin
 6. RBC
 7. Hemostatis
 8. ECG
 9. Gall Bladder
 10. Peptic ulcer.
- 2 Answer the following questions :
 1. Write the mechanism of blood coagulation. **7**
 2. Explain the anatomy of the heart with labelled schematic diagram. **6**
- 3 Answer the following questions :
 1. Write composition and functions of gastric juice. **7**
 2. Enumerate various organs of GI tract. Explain the functions of small intestine. **6**
- 4 Answer the following questions :
 1. Classify elementary tissues. Write a note on epithelial tissue. **7**
 2. Explain the Renin Angiotensin Aldosterone System (RAAS). **6**

SECTION - II

- 5** Answer any **two** questions from the following : **2×7=14**
1. Write a short note on cardiac cycle.
 2. Explain the physiology of muscle contraction with diagram.
 3. Define cell. Explain the basic structure of cell membrane with schematic diagram.
- 6** Answer the following questions :
1. Write a note on WBC. **7**
 2. Explain acquired immunity. **6**
- 7** Answer the following questions :
1. Explain the physiology of digestion. **7**
 2. Write a note on spleen. **6**
- 8** Answer the following questions :
1. Explain blood circulation in detail. **7**
 2. Write a note on blood group and its significance. **6**
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