



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.	Hemostasis	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**