

**Madhya Pradesh Medical Science University, Jabalpur**  
**B.P.T.H. 1st Year Main Examination January – 2020**  
**Paper Code : 20AP0000101721**  
**Subject : Human Physiology**

Time : 3 Hours      Maximum Marks : 100

**Note :**

- (a) All questions are compulsory to answer.
- (b) Draw diagrams wherever necessary.
- (c) Answer of question and sub question must be written strictly according to the serial order of question paper.

**Q1. Very short answer the question (50–60 words)     $02 \times 10 = 20$**

- a. Sick sinus syndrome
- b. Homeostasis
- c. Sarcomere
- d. Haemoglobin and its type
- e. GFR
- f. Diabetes Mellitus
- g. Hormones of posterior pituitary gland
- h. Refractory errors
- i. Endocochlear potential
- j. Seminal fluid

**Q2. Short Answer the question (250–300 words)     $10 \times 05 = 50$**

- a. Describe pathway for blood coagulation
- b. Mechanism of HCl secretion and its regulation
- c. Describe functions of basal ganglia and comment on chorea
- d. Neural regulation of respiration
- e. Counter current multiplier

**Q3. Describe in details (450–500 words)     $15 \times 02 = 30$**

- a. Define shock, types of shock and its stages
- b. Describe functions of glucocorticoids