

Madhya Pradesh Medical Science University, Jabalpur
B.P.Th. 1st Year Supplementary Examination August – 2018
Paper Code : 18BP0000101721
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.

Q. No. 1 Very short answer the question (50–60 words) $2 \times 10 = 20$

- a. Define Homeostasis & give examples of homeostasis
- b. Enumerate different types of white blood cells
- c. Enumerate different valves of heart
- d. Isometric and isotonic muscle contraction
- e. Write function of Saliva
- f. Define muscle tone
- g. Define total lung capacity and residual volume
- h. Define basal metabolic rate
- i. Peristalsis
- j. Enumerate hormones released from adrenal cortex

Q. No. 2 Short Answer the question (250–300 words) $10 \times 5 = 50$

- a. Blood group
- b. Oxygen transport in blood
- c. Define blood pressure. Explain the role of renin angiotensin system in blood pressure regulation
- d. Wallerian degeneration
- e. Muscle spindle

Q. No. 3 Essay type question (450–500 words) $15 \times 2 = 30$

- a. Explain mechanism of generation of action potential in a neuron
- b. Describe different phases of cardiac cycle
- c. Describe spermatogenesis. Write the changes occurring at puberty in human male & female