



DAE-M-20173-O Seat No. _____
First Year M. B. B. S. Examination
April - 2022
Physiology : Paper - 1

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) Write answers of each section in separate answer books.
(2) Answers should be brief and draw necessary diagrams.
(3) Illegible writing will not fetch any marks.
(4) Figures to the right side indicate full marks.

SECTION - I

- 1 Enumerate the factors involved in blood coagulation and describe the intrinsic mechanism of coagulation. 8

OR

- 1 Describe the development and functions of leucocytes and their classification. 8
- 2 Write notes on : 8
- (a) Compliance OR Vital capacity
- (b) Functions of bilesalts OR Functions of saliva
- 3 (a) What is normal body temperature? Explain heat balance and regulation of body temperature. 5
- (b) Explain briefly : 4
- (i) ABO incompatibilities rarely produce hemolytic disease of newborn
- (ii) Albuminuria in nephrotic syndrome
- (iii) Cardiac muscle shows no signs of fatigue
- (iv) Cynosis is not seen in anaemic hypoxia.

SECTION - II

- 4 Define electrocardiogram. Describe the waves, segments and intervals of normal ECG. 8

OR

- 4 Describe the pressure and volume changes in cardiac cycle with special reference to heart sounds. 8

- 5 Write notes on : 8

(a) Nervous regulation of respiration OR Oxygen hemoglobin dissociation curve

(b) Functions of kidney OR Countercurrent exchanger.

- 6 (a) Give an account of hormonal regulation of gastric secretion. 5

(b) Explain briefly : 4

(i) Steatorrhea occurs in pancreatic insufficiency

(ii) Pressing the carotid sinus increases the heart rate

(iii) Severe joint pain occurs in decompression sickness

(iv) Tachycardia in old age.
