



J-M20173

Seat No. _____

First Year M. B. B. S. Examination

September/October – 2019

Physiology : Paper - I

Time : **3 Hours**]

[Total Marks : **50**

Instructions :

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

SECTION - I

- 1 Describe the stages and regulation of erythropoiesis. **8**
Also mention a note on its applied aspects.

OR

Describe the development, morphology and functions of thrombocyte. Also mention its applied aspects.

- 2 Write notes on : **8**
(A) Hypoxia OR Nervous regulation of respiration.
(B) Saliva OR Movements of large Intestine.

- 3 (A) Describe the Liver function tests. **5**
(B) Explain in few sentences : **4**
(a) Neutrophils are body's first line of defence.
(b) Intraplural pressure is subatmospheric.
(c) Breathing stops during deglutition.
(d) Gastric emptying is delayed after taking fatty diet.

SECTION - II

- 4 Define blood pressure. Describe the long term regulation of Arterial Blood Pressure. **8**

OR

Describe the origin and spread of cardiac impulse.

- 5 Write notes on : **8**
(A) Glomerular filtration rate OR Micturition
(B) Surfactant OR Pulmonary compliance.
- 6 (A) Describe the clinical importance of doing spirometry. **5**
(B) Explain in few sentences : **4**
(a) Vasa recta acts as a counter current exchanger.
(b) Increase in pulmonary ventilation occurs at high altitude.
(c) Normally atrial and ventricular systoles never overlap.
(d) Dry hot weather more bearable than hot humid weather.