



JC-4650

Seat No. _____

First Year M. B. B. S. Examination

July - 2019

Physiology : Paper - I

(Old Course)

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) Answer to the point.
(2) Draw diagrams wherever necessary.
(3) Number on right indicates marks.
(4) Write legibly.
(5) Answers to the two sections must be written in two separate answer books.

SECTION - I

- 1 Define erythropoiesis. Write down stages of erythropoiesis and factors necessary for erythropoiesis. 8

OR

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

- 2 Write short notes on : 8

- (1) Functions of saliva OR Gastric juice.
(2) CO₂ transport OR Hypoxia.

- 3 (A) What is jaundice? Write the characteristic features of different types of Jaundice. 5

- (B) Explain in 2 - 3 sentences : 4

- (1) High fibre diet reduces the blood cholesterol level.
(2) Polycythemia develops normally at high altitude.
(3) Enumerate muscle of inspiration.
(4) Oedema develops in renal disease.

SECTION - II

- 4 Describe the mechanism of regulation of arterial blood pressure. 8

OR

- 4 Enumerate different types of recording leads of ECG. 8
Discuss the significance of waves and intervals of human ECG.

- 5 Write short notes on : 8

- (1) Nervous regulation of respiration OR Caisson's disease
(2) Micturition OR Counter current mechanism

- 6 (A) Discuss the movements of intestine. 5

- (B) Explain in 2 - 3 sentences: 4

- (1) Capillaries are known as "exchange vessels".
(2) Abnormal ventilation perfusion ratio in normal lungs.
(3) Mismatched blood transfusion may give rise to acute renal failure.
(4) Achlorhydria is not associated with alkaline tide.
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