



MD-4650

Seat No. _____

First Year M. B. B. S. Examination

July – 2016

Physiology : Paper - I

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) Write legibly.
- (4) Figures to right indicate full marks.

SECTION - I

- 1 Discuss physiology of various blood group systems with hazards of mismatched blood transfusion. 8

OR

Discuss in detail physiology of platelets with their functions.

- 2 Write notes on : 8
- (a) Functions of bile **OR** Gastrin
 - (b) Decompression sickness **OR** Cyanosis
- 3 (a) Describe autoregulation of renal blood flow. 5
- (b) Explain briefly : 4
- (i) Absolute count and its importance
 - (ii) Migrating motor complexes
 - (iii) Cushings reflex
 - (iv) Obligatory and facultative reabsorption of water

SECTION - II

4 Define cardiac output. Describe in detail control of cardiac output. 8

OR

Define blood pressure and its various components. Explain long term regulation of blood pressure.

5 Write notes on : 8

(a) CO₂ transport **OR** Compliance

(b) Counter current multiplier **OR** Role of hypothalamus in regulation of body temperature

6 (a) Discuss physiology of vomiting. 5

(b) Explain briefly: 4

(i) Cyanosis do not develop in severe anaemia.

(ii) Gastrocolic reflex

(iii) CNS ischaemic response acts as last ditch stand.

(iv) Tubular maximum for glucose.