



Z-4650

Seat No. _____

First Year M.B.B.S. Examination

February – 2006

Physiology : Paper - I

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) Answer each section in separate answer book.
(2) Draw diagrams wherever necessary.
(3) Illegible answer will not carry marks.

SECTION - I

- 1 Enumerate clotting factors and discuss the mechanisms of coagulation. 8
- OR**
- 1 Classify WBCs and write in brief about humoral immunity. 8
- 2 Write short notes on : 8
- (1) O₂ Haemoglobin dissociation curve **OR** Hypoxia
- (2) Gastric emptying **OR** Deglutition.
- 3 (a) What is anemia ? Classify anemia and discuss the factors affecting Erythropoiesis. 5
- (b) Explain briefly : 4
- (1) Clotting time is prolonged in liver diseases.
- (2) Bile salts are necessary for digestion of fats.
- (3) Normally proteins are not excreted in urine.
- (4) Rapid coronary blood flow occurs during diastole.

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SECTION - II

4 Describe various phases of cardiac cycle. Discuss ventricular pressure changes during cardiac cycle. 8

OR

4 Describe the origin and spread of cardiac impulse. Discuss different types of Heart blocks. 8

5 Write short notes on : 8

- (1) Juxta glomerular Apparatus **OR** Micturition
- (2) Neural regulation of respiration **OR** Lung compliance.

6 (a) Describe acid secretion in stomach and write in brief about peptic ulcer. 5

(b) Give reasons in 3-4 sentences for the following : 4

- (1) HIV infection suppresses immunity.
 - (2) Increase in PCV occurs at high altitude.
 - (3) Diver should be brought to surface slowly.
 - (4) Respiratory distress syndrome occurs in premature babies.
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