

# First Year MBBS Examination

## I MBBS Physiology Paper 1

Date: 11-06-2015

Time: 3 hours

Max Marks: 50

Instructions:

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

### Section 1

1. Write short notes on: (any two) (10)
  - a. Active transport
  - b. Fate of RBC
  - c. Local hormones in gastro-intestinal tract
2. 2A. Write Short notes on (any two) (6)
  - a. functions of Globulins
  - b. G protein as 2nd messenger
  - c. Mechanism of Platelet Plug
3. 2B. Write short note on any one out of 2 (3)
  - a. Lipid Absorption in small intestine

- b. Complement system in Immunity
- 4. Write Short notes on (any two) (6)
  - a. Composition of gastric
  - b. Immunoglobulin
  - c. Regulation of HCl secretion

## Section 2

- 1. Explain in detail (any two) (10)
  - a. Cardio respiratory changes during exercise
  - b. Regulation of respiration by nervous system
  - c. Shock
- 2. 5A. Write Short notes on (any three out of five) (6)
  - a. Explain various factor affecting cardiac out put
  - b. What are the peculiarities of coronary circulation?
  - c. Hypoxia
- 3. 5B. Write briefly on any 1 out of 2 (3)
  - a. Bainbridge reflex
  - b. Oxygen-hemoglobin dissociation curve
- 4. Write Justification of following statements: (any six) (6)
  - a. Define Landsteiner's law
  - b. What is Steatorrhoea?
  - c. Define all-or none law.
  - d. Why blood does not clot in the blood vessels?
  - e. Name the neurotransmitter release at ganglion of autonomic nervous system
  - f. Explain Bohr's effect

- g. Define Depolarization.
- h. What is Achlorhydria?
- i. Why Anemia develops after gastrectomy?
- j. Why Bradycardia is seen in athletes.

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