

# First Year MBBS Examination

## I MBBS Physiology Paper 1

**Time:** 3 hours

**Max**

**Marks:** 50

**Date:** 05-06-2016

### 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 in detail: (any two) (10)

- a. Special types of active transport
- b. Classify immunity and write a note on autoimmune diseases
- c. Write about cell junctions. Give advantages and types of stem cells

#### 2A. Write briefly on (any two out of three) (6)

- a. Regulation of Gastric juice secretion
- b. Morphological variations of Erythrocytes
- c. Factors influencing pancreatic secretion

**28. Write short note on (any one) out of two) (3)**

- a. Health benefits of dietary fibers
- b. Classification of nerve fibers

**3. Write Short notes on (any two) (6)**

- a. Orthograde degeneration
- b. Physiology of neuromuscular junction
- c. Compare and contrast 'All or none' skeletal and cardiac muscle

**Section 2****4. Write Short notes on (any two) (10)**

- a. Physiological variations and regulation of Heart rate
- b. Draw the label diagram of respiratory membranes and explain di level
- c. Chemical regulation of respiration

**5A. Write Short notes on (any three out of five) (6)**

- a. Causes and applied physiology of second heart sound
- b. Effects of shock of various systems
- c. Timed vital capacity and its applied physiology

**58. Write in short on any one out of two: (3)**

- a. Changes of ECG in myocardial infarction and ischemia
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b. Write on hypoxic and stagnant hypoxia

**6. Answer in two or three sentences: (any six) (6)**

- a. What is the importance of neonatal phototherapy?
- b. What do you mean by Oxygen debt?
- c. Why do athletes show bradycardia?
- d. What are the indications of blood transfusion?
- e. Mention any three functions of cell membrane.
- f. What are the dangers of central cyanosis?
- g. Why to avoid feeding starch to baby up to the age of 6 - 8 months
- h. Why nerves do not get fatigue in periphery?
- i. Apnea followed by tachypnea explain why.
- j. What is the significance of end Diastolic Volume?

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