

**0119 E524**

# **First Year MBBS Examination**

## **I MBBS Physiology Paper 1**

Date: 05-01-2019

Time: 3 hours

Max Marks: 50

Instructions: 1. Answer to the points. 2. Use separate answer books for each section. 3. Draw diagrams wherever necessary.

### **Section 1**

1. Write briefly on (any two) (10)
    - a. Rh Incompatibility
    - b. Differences between Obstructive and Restrictive Lung Disease
    - c. Abnormalities of Micturition
  2. Write Short notes on (any two) (6)
    - a. Plasma Proteins: functions and values
    - b. Fate of Hb
    - c. Immunoglobulin
  3. Write briefly on any one (3)
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- a. Na-K<sup>+</sup> ATPase pump
  - b. All or none Response
4. Write briefly on only two (6)
- a. Differences between Cortical and Juxtamedullary Nephron
  - b. Transport Maximum
  - c. Rennin-Angiotensin Mechanism

## Section 2

1. Write briefly on (any two) (10)
    - a. Action potential in Contractile Cardiac Muscle lonci Basis and Diagram
    - b. Left ventricular Pressure Changes during Cardiac Cycle with Graph
    - c. Determinants of Blood Pressure
  2. Write briefly on (any two) (6)
    - a. Surfactant
    - b. Timed vital capacity
    - c. Neural Regulation of Respiration
  3. Write briefly on any one (3)
    - a. Oxygen Deficit and Oxygen Debt
    - b. Acute Mountain sickness
  4. Describe briefly in 2-3 sentences (any six): (6)
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- a. Refractory Period
- b. Saltatory conduction
- c. Physiological shunt
- d. Laplace's law
- e. Windkessel effect
- f. Cushing syndrome
- g. Splay
- h. Autoregulation

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