

First M.B.B.S. Examination

Physiology

Paper-I

Date : 05-01-2019, Saturday]

[Max. Marks : 50

[Time : 3 Hours

- Instructions :** (1) Answer to the point.
(2) Figure to the right indicates marks.
(3) Draw diagrams wherever necessary.
(4) Write legibly.
(5) Use separate answer books for each section.

Section – I

- Q 1. Write briefly on only two 2x5=10
a. Rh Incompatibility
b. Differences between Obstructive and Restrictive Lung Diseases.
c. Abnormalities of Micturition.
- Q 2. A) Write briefly on only two 2x3=6
a. Plasma Proteins: Functions and Values
b. Fate of Hb
c. Immunoglobulins
B) Write briefly on any one 1x3=3
a. $\text{Na}^+\text{-K}^+$ ATPase Pump
b. All or None Response
- Q 3. Write briefly on only two 2x3=6
a. Differences between Cortical and Juxtamedullary Nephron
b. Transport Maximum
c. Renin-Angiotensin Mechanism

Section – II

- Q 4. Write briefly on only two 2x5=10
a. Action Potential in Contractile Cardiac Muscle-Ionic Basis and Diagram
b. Left Ventricular Pressure Changes During Cardiac Cycle With Graph
c. Determinants of Blood Pressure
- Q 5. A) Write briefly on only two 2x3=6
a. Surfactant
b. Timed Vital Capacity
c. Neural Regulation of Respiration
B) Write briefly on any one 1x3=3
a. Oxygen Deficit and Oxygen Debt
b. Acute Mountain Sickness
- Q 6. Describe Briefly in 2-3 sentences (any six): 6x1=6
a. Refractory Period
b. Saltatory Conduction
c. Physiological Shunt
d. Laplace's Law
e. Windkessel Effect
f. Cushing's Reflex
g. Splay
h. Autoregulation