

First M.B.B.S. Examination
/ October - 2016
Physiology Paper I

Date:
Time: 2hrs 30 mts

Code - 9663

Total marks: 50

Instructions: Illegible writing will not fetch marks.
Draw diagrams wherever required.
Answer each section in separate answer book.

SECTION – I

Q 1) Write notes on any five: 20

- Classify anaemia. Write a note on pernicious anaemia.
- Definition, indication and complication of blood transfusion.
- Definition, origin and phases of action potential.
- Sarcotubular system.
- Gastric emptying.
- Movements of large intestine..

Q 2) Explain in brief any five: 5

- Estimation of ESR has less diagnostic and more prognostic importance.
- ATP is essential for contraction as well as relaxation of skeletal muscle.
- Bile salts are very useful.
- Apoptosis has physiologically significant role.
- Pancreatic proteolytic enzymes secreted as inactive proenzyme.
- Vitamin K deficiency causes prolongation of clotting time and serious haemorrhage.

SECTION – II

Q 3) Write notes on any five: 20

- Definition, actions and physiological significance of surfactant.
- Lung volumes and capacities.
- Buffer systems in the kidney.
- Juxtaglomerular apparatus.
- Regulation of heart rate.
- Give name, cause and duration of waves of normal Electrocardiogram (ECG).

Q 4) Explain in brief any five: 5

- Intrapleural pressure is negative.
- Cardiac muscle does not show sign of fatigue.
- Dead space air is physiologically important.
- During exercise venous return increases.
- PAH clearance is used to measure renal blood flow.
- Glomerular capillary hydrostatic pressure is higher than other systemic capillaries.