

Date: 05-01-2011

0111 E16

# First Year MBBS Examination

## I MBBS Physiology Paper 1

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. Clearance tests
  - b. Electrocardiographic leads
  - c. Blood coagulation tests
2. Write briefly on (any two): (6)
  - a. Functions of WBC
  - b. Plasma proteins
  - c. Factors affecting Erythropoiesis
3. Write briefly on (any on: (3)
  - a. Transport through cell membrane
  - b. Cell adhesion molecule
4. Write briefly on (any on: (6)
  - a. GFR
  - b. Micturition reflex
  - c. Sweat glands

### Section 2

1. Write briefly on (any two): (10)
  - a. Regulation of arterial blood pressure
  - b. Coronary circulation
  - c. Origin and spread of cardiac impulse
2. Write briefly on (any two): (6)
  - a. Transport of oxygen in blood
  - b. Neural regulation of respiration
  - c. Lung volumes and capacities
3. Write briefly on (any on: (3)
  - a. Acclimatization at high attitude

- b. Skeletal muscle blood flow during exercise
4. Write answers in two or two sentences (any six): (6)
- a. A high protein intake is known to increase both renal blood flow and GFR.
  - b. Hyperventilation continues after mild exercise.
  - c. Fresh plasma is transfused in purpur
  - d. Folic acid deficiency leads to megaloblastic anaemia
  - e. Vitamin K deficiency can lead to serious bleeding tendencies.
  - f. Breathing stops during swallowing.
  - g. Facilitated transport reaches plateau.
  - h. Blood flow through vasa recta is slow.

End of Paper

www.FirstRanker.com