

0112 E015

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. Pressure-volume changes during cardiac cycle
- b. Humoral immunity
- c. Renal blood flow

2. Write briefly on (any two): (6)

- a. Functions of platelets
- b. Erythrocyte sedimentation rate
- c. Rh blood group

3. Write briefly on (any on: (3)

- a. Resting membrane potential
- b. Homeostatic feedback control

4. Write briefly on (any on: (6)

- a. Transport maximum for glucose (T_m)
- b. Hypothermia
- c. Reabsorption of water

Section 2

5. Write briefly on (any two): (10)

- a. Circulatory shock
- b. Methods of measurement of cardiac output
- c. Cutaneous circulation

6. Write briefly on (any two): (6)

- a. Lung compliance
- b. Chemical regulation of respiration
- c. Ventilation-perfusion ratio

7. Write briefly on (any one): (3)

- a. Decompression sickness
- b. Respiratory changes during muscular exercise

8. Write answers in two or two sentences (any six): (6)

- a. Intrapleural pressure is sub atmospheric
- b. Intravenous red blood cell is larger than intra-arterial one.
- c. Venous return increases during muscular exercise.
- d. Only males suffer from hemophili

- e. Mention the cause for A-V nodal delay.
- f. Anaemia in renal disease.
- g. Increase in red blood cell count at high attitude.
- h. Define sinus arrhythmia and give its cause.

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