

Date: 03-01-2014

0114 E037

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. Reactions of mismatched transfusions
- b. Dysbarism
- c. Coronary circulation

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

- a. T Lymphocytes
- b. Rh factor
- c. ESR

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

- a. Cell membrane
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b. $\text{Na}^+ - \text{K}^+ - \text{ATPase}$ pump

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

- a. Factors affecting GFR
- b. Functions of renal tubules
- c. Renin Angiotensin Mechanisms

Section 2

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

- a. Phlebogram
- b. Heart sounds
- c. Define cardiac index. Describe one method to measure it.

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

- a. Acclimatization to high altitude
- b. Transport of oxygen in blood
- c. Chemo receptors

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

- a. Functions of skin in temperature regulation
- b. Effects of exercise on cardiovascular system

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

- a. Beneficial effects.
- b. Central vs peripheral cyanosis
- c. Uses of anticoagulants
- d. Bradycardia is observed after short session of meditation.
- e. Ventricular premature contraction
- f. Micturition reflex
- g. Oedema
- h. Physiological functions of AV node.

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