

Date: 28-12-2017

1217 E044

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. Give an account of any TWO of the following (10)

- a. A person after taking injection Penicillin goes in for a state of shock. What type of shock is it? Explain its physiological basis.
- b. Neural regulation of respiration.
- c. Cell mediated immunity.

2. Write Short notes of (any two) (6)

- a. Functions of Lymph
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- b. Hazards of mismatched transfusion
- c. Sites of erythropoiesis

3. Write short notes on any one (3)

- a. Primary active transport
- b. Negative feedback mechanism

4. Discuss Any TWO (6)

- a. Micturition reflex
- b. Any three non-excretory functions of kidney
- c. Autoregulation.

Section 2

5. Write Short notes on (any two) (10)

- a. Baroreceptor reflex
- b. Coronary circulation
- c. Pacemaker potential

6. Write Short notes on (any two) (6)

- a. Oxygen dissociation curve
- b. Haldane effect
- c. Surfactant

7. Write short note on (3)

- a. Acute effects of hypoxia
- b. Explain any three respiratory changes that take place during exercise?

8. Give your comments with justification of Any SIX: (6)

- a. Bernoulli's principle
- b. Frank starling law
- c. Layers of respiratory membrane
- d. Dead space.
- e. Exocytosis
- f. Tracellular fluid
- g. Renal threshold for glucose
- h. Bombay blood group

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