

0116 E021

First Year MBBS Examination

I MBBS Physiology Paper 1

Date: 04-01-2016

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. Blood pressure- Definition, Determinants and short term regulation
- b. Define hemolytic anemia: Give its causes, clinical features and management
- c. Surfactant-Definition, functions and its clinical significance

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

- a. Rh incompatibility
- b. Phagocytosis
- c. Functions of plasma proteins

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

- a. Secondary active transport
- b. Refractory period

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

- a. Transport maximum
- b. Renin angiotensin system
- c. Filtration Fraction

Section 2

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

- a. Shock-Definition, Types and compensatory mechanism involved in non-progressive shock
 - b. Give physiology basis of decreased blood flow in inner portion of left ventricle wall during systole
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c. Microcirculation

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

- a. Metabolic and endocrine functions of lungs
- b. Clinical significance of timed vital capacity
- c. Hering- Breuer reflex

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

- a. Acclimatization
- b. Dysbarism

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

- a. Oncotic pressure
- b. All or none law
- c. Chronotropic effect
- d. Fibrinolytic system
- e. Why anemia can never be hyperchromic?
- f. Autorhythmicity
- g. Why diffusion capacity of lungs increases

in exercise?

h. Haldane effect

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