

Date: 05-06-2017

Preli 111

First Year MBBS Examination

I MBBS Physiology Paper 1

Time: 3 hours

Max Marks: 50

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Write short notes on: (any two) (10)

- Classify leukocytes and give their physiological variations and functions
- Define diffusion and explain factors affecting net rate of diffusion
- Explain physiological basis of Blood groups and mention hazards of mismatch blood transfusion

2A. Write Short notes on (any two out of three) (6)

- Regulation of salivary secretion
- Justify the statement "Bile is essential for life"
- Applied physiology of "Motor Unit"

2B. Write in short note any one out of two (3)

- a. Conduction of nerve impulse in myelinated nerve
- b. Refractory period in cardiac muscle

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

- a. Mechanism of heat loss from the body
- b. Effects of sympathetic stimulation on CVS
- c. Mass peristalsis

Section 2

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

- a. Define blood pressure give its normal values of various blood pressure and explain sino-aortic mechanism
- b. Explain role played by various pressures during quiet and forced respiration
- c. Explain ventricular events with pressure volume of blood and heart sounds during normal cardiac cycle

5A. Write Short notes on (any three out of five) (6)

- a. Give various types of cardiac output with their values and mention significance of cardiac reserve
- b. Draw tracing of normal ECG and mention importance of R-R interval
- c. Factors affecting normal lung compliance

5B. Write in short on any one: (3)

- a. Periodic breathing
- b. Importance of O₂ therapy in various hypoxia

6. Write Justification of following statements: (any six) (6)

- a. Gastric atrophy lead into anemia
- b. Marey's law is not always true
- c. CO₂ is more potent for regulation of respiration
- d. Blood fails to clot intravascularly
- e. Gastrocolic reflex
- f. Effect of T receptors on CVS
- g. Role of satiety center on food intake
- h. Normal body temperature in Centigrade and Fahrenheit

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