

Date: 12-06-2015

GDU 2833

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. Explain in detail: (any two) (10)
 - a. Active transport.
 - b. Fate of RBC
 - c. Local hormones of gastro-intestinal tract.
2. Write brief notes on (any two) (6)
 - a. Functions of Globulins
 - b. G protein as 2nd messenger
 - c. Mechanism of Platelet Plug formation (A.125) (B.153)
3. Write brief on (any one) (3)
 - a. Complement system in Immunity
 - b. Lipid Absorption in small intestine
4. Give brief on (any two) (6)
 - a. Composition of gastric juice (A.232) (8.466)

- b. Immunoglobulin (A.111) (B.138)
- c. Regulation of HCl secretion

Section 2

1. Explain in detail (any two) (10)
 - a. Nervous regulation of respiration (A.716) (B.336)
 - b. Various events of cardiac cycle with pressure and volume changes
 - c. High altitude acclimatization (A.770) (8.359)
 2. Write briefly on (any two) (6)
 - a. Haldane effect (A.783) (8.332)
 - b. Pacemaker potential (A.553) (8.187)
 - c. Peripheral resistance. (A.623) (8.230)
 3. Write briefly on (any one) (3)
 - a. Patho-physiology of fever
 - b. Hypothermia (A.363) (B.961)
 4. Answer in 2-3 sentences: (6)
 - a. What is the normal pH of blood?
 - b. What is normal average ratio of WBC to RBC in human blood?
 - c. Define homeostasis. (A.38)
 - d. What is sarcomere? (A.171) (B.68,178)
 - e. Name the hormone secreted by stomach.
 - f. Name the special conducting tissues of heart
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- g. State marey's law.
- h. What is O₂ content in arterial and venous blood?
- i. Define respiratory unit
- j. Name the lung volumes and capacities, which cannot be measured by simple spirometer (A.690) (8.301)

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