

GV 3003

First Year MBBS Examination

I MBBS Physiology Paper 1

Date: 12-06-2016

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.

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**\*\*Section 1\*\***

1. **Explain in detail: (any two) (10)**
  - a. Explain "deglutition reflex" in detail. Write note on 'Achalasia cardia'? (A.270) (8.461)
  - b. Write in detail about cellular immunity'. Write note on helper T cells
  - c. What is composition of Pancreatic juice? Write note on acute pancreatitis. (A.246) (8.482)
2. **Write brief notes on (any two) (6)**
  - a. Explain properties of action potential in skeletal and cardiac muscle fibers.
  - b. Write in detail about active transport across cell membrane
  - c. Functions of saliva (A.225) (B.739)
3. **Write brief on (any one) (3)**
  - a. Name various cell organelles. Write in detail about structure and functions of cell membrane
  - b. Write in details about various cell junctions
4. **Give brief on (any two) (6)**
  - a. Reticulo-endothelial system
  - b. Innate immunity (A.107) (B.139)
  - c. Blood coagulation tests (A.133) (8.163)

**\*\*Section 2\*\*****1. Explain in detail (any two) (10)**

- a. Write in detail about role of anterior hypothalamus in regulation of body temperature. Write note on mechanism of generation of fever
- b. Differences between sympathetic and parasympathetic systems
- c. Write in detail about various types and treatment of hypoxia (A-756) (8.352)

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

- a. Various leads of ECG
- b. Baro-receptor (Sino-aorti reflex (A.633)
- c. Define 'shock' and give its types. Give physiological basis of treatment of shock. (A-684)

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

- a. Mechanics of inspiration (A.714) (8.297.316)
- b. Effects of high pressure of gases on body

**4. Answer in 2-3 sentences (any 6) (6)**

- a. Explain mechanism of action of EDTA as anticoagulant
- b. Name 2 anta-acids
- c. Give partial pressures value for oxygen and carbon di-oxide in venous blood
- d. Name two muscles involved in forceful

expiration

- e. Define dead space (A.732) (8.318)
- f. Name two parasympathomimetic drugs
- g. Give two examples of passive immunity
- h. Name two functions of AV node (A.529) (8.188)
- i. Which type of antibody has largest number of antigen binding sites?
- j. Name two indications of transfusion of fresh frozen plasma

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