

Date: 07-07-2016

0716 E049

## **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. Write briefly on (any two): (10)

- a. Describe the functions of proximal convoluted tubule. Explain, what is renal Glucosuria? (318) (378)
- b. Explain structures and functions of platelets. What is thrombocytopenic purpura? (122)(150)
- c. Describe caisson's disease. (775) (362)

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

- a. Name in vivo anticoagulants and explain the

mechanism of action of any one. (A-131)

- b. List the factors regulating Erythropoiesis. Explain the role of any one. (73)(104)
- c. Explain the complications of mismatched transfusion. (144) (171)

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

- a. Describe facilitated diffusion with an example (31)(17)
- b. Explain Gap junction. (A-26)

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

- a. Describe the JG Apparatus and its functions. (311)(380)
- b. What is filtration pressure? How is it determined? (A-320)
- c. Role of skin in heat loss (367)(273)

## Section 2

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

- a. Explain Homeometric and heterometric regulation of cardiac output (B-340)
- b. Explain the special features of coronary circulation. (657) (265)
- c. Explain the conducting system of the heart (A-554)

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

- a. Explain the Hamburger's phenomena (A-744)
- b. Draw the diagram of lung volumes and capacities and label it (691)(301)
- c. Name the respiratory centers and describe the chemoreceptors (A-747, 751)

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

- a. Hypoxic hypoxia (A-756) (352)
- b. Acclimatization (770)(359)

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

- a. MCHC & MCV (A-85)
- b. Phagocytosis (36)(126)
- c. Dyspnoeic index (A-761)
- d. Timed vital capacity (A-727) (303)
- e. Glomerulotubular balance (A-347)
- f. Clearance Tests (335)(435)
- g. Tripple response (676)(275)
- h. Pressure Natriuresis