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First Year MBBS Examination I MBBS Physiology Paper 1

Time: 3 hours Max Marks: 50

Date: 06-07-2015

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 process of diffusion of gases across the respiratory membrane. What is respiratory distress syndrome.
 - b. Describe the ECG in lead I What is the significance of PR interval. (556,557)
 - c. What is the clinical importance of Rh group. What is erythroblastosisfoetalis. How it is treated?
- 2. Write briefly on (any two): (6)
 - a. What is immunity? Describe cellular immunity.
 - b. Functions of plasma proteins.(59)(95)



- www.FirstRanker.com www.FirstRanker.com www.FirstRanker.com C. Describe the extrinsic mechanism of initiation of clotting.
- 3. Write briefly on (any on: (3)
 - a. Enumerate the different transport mechanism across the cell membrane. (27)
 - b. What is resting membrane potential? How is it produced?
- 4. Write briefly on (any on: (6)
 - a. Describe the functions of proximal convulated tubule. (318)(378)
 - b. Describe the micturition reflex (355)(432)
 - c. Role of skin in temperature regulation. (367) (273)

Section 2

- 1. Write briefly on (any two): (10)
 - a. Role of baroreceptors in regulation of blood pressure (605) (246)
 - b. Describe the production and propagation of cardiac impulse.
 - c. What is cardiac output? Describe the factors regulating it. (599)(215)
- 2. Write briefly on (any two): (6)
 - a. Vital capacity (696) (301)
 - b. Chemoreceptors(751)(341)
 - c. Neurotoxic centers



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

- a. Decompression sickness (775)
- b. Respiratory changes during exercise
- 4. Write answers in two or two sentences (any six): (6)
 - a. Angina pectoris
 - b. What is anemia?
 - c. Homeostasis (38)
 - d. Functions of juxtamedullary nephron (379)
 - e. Sinus arrhythamia (562)
 - f. Cyanosis(763)(354)
 - g. Land Steiner's law
 - h. Erythropoitin

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