



RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-

PAPER -II July 2013 TIME: 3 HOURS TOTAL MARKS: 50

INSTRUCTIONS:

1. Que. No. 1 in section A is compulsory. Attempt ANY TWO questions from rest of the questions in section A. Attempt ANY THREE questions in section B.
2. Use separate answer sheet for each section.

Section A - (26 Marks)

1. Explain what will happen and why (10)
 1. Extra amount of blood flows into the ventricles (C1- 344)
 2. A person loses blood after an accident
 3. Level of vitamin B1₂ and folic acid in blood is reduced (C1- 74)
 4. To pulmonary blood flow distribution when alveolar P_{O2} decreases
 5. The lower oesophageal sphincter does not completely relax (C1- 216)
2. Discuss briefly(8)
 1. Factors affecting GFR (A. 320) (B. 388)(C1- 522)
 2. Erythroblastosis foetalis (A. 143) (B. 169)(C1- 112)
3. Explain (8)
 1. A - V nodal delay
 2. Law of gut (C1- 252)
 3. CO₂ transport on blood (C1- 438)
 4. Mass movements (C1- 256)
4. Write short notes on(8)
 1. Pharyngeal stage of swallowing (C1-215)
 2. Baroreceptor reflex(A. 633) (C1- 353)

Section B - (24 marks)

5. Discuss briefly(8)
 1. Ventilation perfusion ratio (A. 702)(B. 319) (C1- 427)
 2. Reynolds number (C1- 320)
 3. Counter-current blood flow in villi (C1- 549)





4. Role of ADH in controlling water excretion (C1- 564)
6. Write short notes on (8)
 1. Exocrine Pancreatic secretion (C1-233)
 2. Concentration of urine (A. 328) (B. 403) (C1- 550)
7. Explain with figures and flow charts (8)
 1. S - A nodal action potential (C1- 180)
 2. Extrinsic pathway for blood coagulation (A. 131) (B. 156) (C1- 99)
 3. Normal cystometrogram (A. 342)
(B. 444) (C1- 581)
 4. Compliance diagram of lung (A. 719)
(B. 307) (C1- 422)
8. Explain briefly (8)
 1. Functions of saliva (A. 225) (B. 739) (C1-209)
 2. Factors affecting heart rate (C1- 339)

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