



RUHS RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-

PAPER -II July 2014 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 & why? 10

1. If plasma colloid osmotic pressure in systemic circulation is decreased to 11 mm of Hg. (C1- 57)

2. If premature babies have little or no surfactant in the alveoli when they are born (C1- 420)

3. If person with platelet count less than 50,000 /ml (C1- 95)

4. If HCO₃⁻ concentration in extracellular fluid is decreased (C1- 569)

5. If common bile duct is obstructed by gall stone (C1- 246)

2. Describe briefly: (8)

1. Conducting system of the heart (A- 554)(C1- 282)

2. Compliance of lungs (A. 719) (B. 307) (C1- 420)

3. Describe briefly (8)

1. Sweat gland (A. 357) (C1- 591)

2. Plasma clearance (C1- 541)

3. Secretin (A. 283) (B. 485)(C1- 236)

4. Functions of WBCs (A. 100) (B. 126)(C1-85)

4. Write notes on the following (8)

1. CO₂ transport in the blood (C1- 438)

2. Mechanism of formation of HCL acid in stomach (A. 235) (B. 466) (C1- 222)

5. Describe briefly (8)

1. Reynolds number (C1- 320)

2. Passive immunity (C1- 125)

3. Functions of bile (A. 252) (B. 491) (C1-243)

4. Physiological dead space (A. 732) (B. 318) (C1- 426)





6. Write short notes on (8)

1. Movements of small intestine (A. 278) (B. 501) (C1- 251)

2. Pressure & volume changes in left

ventricle during cardiac cycle (A. 536-540) (B. 206) (C1- 287)

7. Explain with diagram/ flow charts (8)

1. Juxtaglomerular apparatus (A. 311) (B. 380) (C1- 510)

2. Oxygen-Hb dissociation curve (A. 743) (B. 326) (C1- 434)

3. ECG in lead II (A. 556,557) (C1- 294)

4. Erythropoiesis (A. 70) (B. 104) (C1- 69)

8. Write notes on (8)

1. Peculiarities of pulmonary circulation (C1- 385)

2. Micturition reflex (A. 355) (B. 432) (C1-

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