



**RUHS FIRST YEAR MBBS EXAMINATION**

**HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-**

**PAPER -II July 2012 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.

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**Section A -(26 Marks)**

1. Explain what will happen and why? (10)

1. If bilateral paralysis of diaphragm muscle occurs. (C1- 413)
2. If both sympathetic and parasympathetic nerves to heart are cut.
3. If iron in haem is present in ferric form. (C1- 61)
4. If blood flow in the vasa recta increases. (C1- 516)
5. To intestinal movements after denervation (C1- 253)

2. Discuss briefly (08)

1. Surfactant and its actions (A. 715) (B. 296) (C1- 408,419)
2. Thalassemia (A. 91) (B. 114) (C1- 63)
3. Describe briefly (08)
  1. Physiological significance of oxygen haemoglobin dissociation curve (C1- 434)
  2. Peculiarities of Renal circulation (C1-515)
  3. Functions of gall bladder (A. 256) (C1-245)
  4. Defecation reflex (C1- 258)

4. Write short notes on (08)

1. Factors affecting Na<sup>+</sup> reabsorption (C1- 531)
2. Automatic control of respiration (C1-444)

**Section B - (24 marks)**

5. Discuss briefly (08)

1. Axon reflex (A. 676) (C1- 330,379)
2. Cyanosis (A. 763) (B. 354) (C1- 467)
3. Characteristics of a substance for measuring GFR (A. 320) (B. 388) (C1- 570)





4. Functions of Plasma Proteins (A. 59) (B. 95)
6. Write short notes on (08)
  1. Physiological effects of Physical training
  2. Somatostatin (A. 436) (B. 607)(C1- 277,C2-669)
7. Explain with figure if flow charts (08)
  1. Juxtaglomerular apparatus (A. 311) (B. 380) (C1- 510)
  2. Normal ECG (A. 577) (C1- 294)
  3. Platelet under electron microscope (C1- 94)
  4. Length tension relationship in skeletal muscle (C1- 172)
8. Explain briefly (08)
  1. Pathophysiology of fever (C1- 573)
  2. Phases of Gastric juice secretion (C1-224)

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