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#### **RUHS RUHS FIRST YEAR MBBS EXAMINATION**

#### **HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-**

PAPER -II August 2015 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? (compulsory) 5X2
- 1. What is the expected effect of sympathetic action on intestinal motility?
- 2. What will be the effect on atrial BP during sudden position change from supine to standing?
- 3. Sudden infusion of 400 ml of blood in atria?
- 4. After autonomic denervation of heart, heart rate will be? (C1- 328,329)
- 5. What will be change in urine output, after giving Vasopressin to a patient of central Diabetes insipidus? (C1- 681)
- 2. Describe briefly: 2X4
- 1. Co, Transport Mechanism (C1- 438)
- 2. Short term regulation of arterial blood pressure (C1- 353)
- 3. Describe briefly: 4)
- 1. Functional Residual Capacity (A. 691) (B. 302) (C1-416)
- 2. Polycythemia (C1-67)
- 3. Functions of stomach (C1-219)
- 4. Heat acclimatization (C1-590)

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- 2. Describe briefly:2X4
- 1. Co, Transport Mechanism (C1- 438)
- 2. Short term regulation of arterial blood pressure (C1- 353)
- 3. Describe briefly:4X2
- 1. Functional Residual Capacity(A. 691) (B. 302)(C1-416)
- 2. Polycythemia (C1- 67)
- 3. Functions of stomach (C1- 219)
- 4. Heat acclimatization (C1- 590)
  - 4. Write short notes on the following: 2X4
- 1. Hypoxia(A. 756) (C1- 461)
- 2. Functions of liver(A. 255) (B. 488)(C1- 242)

## Section B - (24 marks)

- 5. Describe briefly: 4X2
- 1. ErythroblastosisFetalis(A. 143) (B. 169) (Cl- 112)
- 2. Functions of plasma Protein (A. 59) (B. 95) (C1- 57)
- 3. Cardiac Pacemaker Potential (C1-180)
- 4. Micturition Reflex (A. 355) (B. 432) (C1-579)
  - 6. Write notes on:2X4
- 1. Physiology of Vomiting (A. 276) (B. 477) (C1-229)
- 2. Bile-composition & functions (A. 252) (B. 491) (C1- 241)
  - 7. Explain with diagram/flow chart4X2
- 1. Counter current multiplier

Mechanism (A. 329) (B. 403) (C1-550)

- 2. 02- Haemoglobin Dissociation Curve (A. 743) (B. 326) (C1- 435)
- 3. Draw & label (wave, segment &interval)-Normal ECG (C1- 295)
- 8. Write notes on:2X4
- 1. Acidification of Urine (C1- 557)
- 2. Deglutition Physiology(A. 270) (B. 461)(C1- 214)