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: 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)

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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)