



**RUHS RUHS FIRST YEAR MBBS EXAMINATION**

**HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS- PAPER -II**

**January 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)**

**Q1. Explain what will happen and why?**

- a) On rapidly ascending to height of 24000ft mountain from sea level.
- b) Manual stimulation of baroreceptors in carotid artery.
- c) Partial obstruction of renal artery.
- d) Deficiency of anti-haemophilic factor
- e) Deficiency of intrinsic factor in gastric secretions. (C1- 74)

**Q2. Describe briefly**

- a) Functions of plasma proteins (C1- 57)
- b) Neural regulation of respiration (C1- 444)

**Q3. Describe briefly**

- a) Functions of saliva (C1- 209)
- b) GFR(A. 320) (B. 388) (C1- 522)
- c) Factors affecting heart rate (C1- 339)
- d) Transport of CO<sub>2</sub>(C1- 438)

**Q4. Write notes on following**

- a) Define cardiac output Describe any one method of measuring cardiac output (C1- 342)
- b) Creatinine clearance (C1- 576)

**SECTION B**

**Q5. Briefly write on**

- a) Erythroblastosisfetalis (C1- 112)
- b) Timed vital capacity (C1- 416)





c) Windkessel effect (C1- 314)

d) Peristalsis (C1- 252)

Q6. Short notes on

a) Jaundice (C1- 79)

b) Mechanics of respiration (C1- 411)

Q7. Discuss briefly

a) Endocrine functions of kidney (C1- 313)

b) Liver function tests

c) PCV (C1- 51)

d) Body responses to low environment temperature (C1- 591)

Q8. Write notes on

a) 1-1<sup>st</sup> secretions in gastric juice (C1- 222)

b) Long term regulation of BP. (C1- 354)

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