



**RUHS RUHS FIRST YEAR MBBS EXAMINATION**

**HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-**

**PAPER -II August 2017 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?10

- a) To heart rate during inspiration (C1- 332)
- b) To oxygen-hemoglobin dissociation curve during exercise (A. 743) (C1-436,486) (B. 326)
- c) If ADH is not secreted at all (C2- 681)
- d) To clotting time in liver disease (C1- 105)
- e) To gastric emptying after fatty diet(A. 274) (B. 475)(C1- 226)

Q2. Describe

08

- a) Electrocardiographic leads(A. 578) (B. 189)(C1- 297)
- b) Blood coagulation tests(A. 133) (B. 163)(C1- 106)

Q3. Describe briefly08

- a) Pacemaker potential (A. 553) (C1- 181)
- b) Pancreatic digestive enzymes (C1- 235)
- c) Micturition waves(A. 355) (B. 432)(C1- 581)
- d) Hereditary spherocytosis (C1- 76)

Q4. Write short note on 08

- a) Thrombocytopenia (C1- 95)
- b) Circulatory changes during exercise (C1- 484)

**SECTION B**

Q5. Describe briefly 08

- a) Venous return(A. 666) (B. 219)(C1- 344)





b) Medullary chemo sensitive area (C1- 450)

c) Pouselle's Law (C1- 319)

d) Haemolytic disease of new born (C1- 111)

Q6. Write notes on 08

a) Regulation of gastric juice secretion (C1- 223)

b) Renal regulation of potassium (C1- 532)

Q7. Explain with diagram / flowchart 08

a) LV pressure and LA pressure curves in cardiac cycle (C1- 289)

b) Macula dense feedback mechanism (C1- 517)

C) Regulation of immune system (C1- 130)

d) Changes in Alveolar & pleural pressure during normal breathing (C1- 414)

Q8. Write notes on

08

a) Acclimatization to low pO<sub>2</sub> (C1- 473)

b) Peptic ulcer (A. 240) (B. 477) (C1- 228)

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