



RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-

PAPER – II July 2011 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.

Section A -(26 Marks)

1. Explain what will happen and why (10)
 1. To heart with sympathetic stimulation (C1-328)
 2. To lung compliance in old age (C1-422)
 3. To RBC size in Vit B12 deficiency (C1-74)
 4. To gastric emptying time after fatty diet (C1- 226)
 5. To urine volume in diabetes mellitus? (C2-756)
2. Describe (08)
 1. Acclimatization (A. 770) (B. 359) (C1-473)
 2. Coronary circulation (A. 657) (B. 265) (C1- 361)
 3. Discuss (08)
 1. Acidification of urine (C1- 557)
 2. Cardiovascular changes in exercise (A. 695)(C1- 483)
 4. Write short notes on the following (08)
 1. Timed vital capacity (A. 696) (B. 301) (C1- 416)
 2. Blood Brain barrier (A. 620) (C1- 376)
 3. Heart sounds (A. 544) (B. 211) (C1- 282 291)
 4. Pacemaker potential (A. 553) (C1- 180)

Section B - (24 marks)

5. Discuss in short (08)
 1. Bile salts (A. 252) (B. 491) (C1- 243)
 2. Atrioventricular delay (C1- 182)
 3. Macrophages (A. 100,103) (B. 126) (C1-87)





4. Erythroblastosis foetalis (A. 143) (B. 169) (C1- 112)
6. Describe physiology of the following (08)
 1. Circulatory shock (A-684) (C1- 393)
 2. Iron deficiency anaemia (C1- 76)
7. Describe (08)
 1. Neural regulation of respiration (A. 716) (B. 336) (C1- 446,447)
 2. Intestinal movements
8. Draw labelled diagram diagram/ flow chart of following (08)
 1. Intrinsic mechanism of coagulation (A. 131) (C1- 101)
 2. Immunoglobulin (A. 113) (B. 137) (C1-129)
 3. Stages of Erythropoiesis (A. 70) (B. 104) (C1- 70)
 4. Normal ECG (A. 577) (C1- 294)

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