



**RUHS FIRST YEAR MBBS EXAMINATION**

**HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-**

**PAPER – I 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.

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**Section A -(26 Marks)**

1. Explain what will happen and why? (10)
  1. To muscle contradiction when  $Ca^{2+}$  concentration in extracellular fluid decreases. (C2- 717)
  2. When dopaminergic fibres in basal ganglia are destroyed (C2- 999)
  3. To the size of thyroid gland in iodine deficiency. (C2- 698)
  4. To base body temperature at the time of ovulation (C2- 809)
  5. To the vision of person moving from well lighted room to dark room. (C2-1109)

2. Describe (08)

1. Decerebrate rigidity (C2- 995)
2. Analgesic system of body (C2- 904)
  3. Explain with the help of diagram (08)
1. Excitation contraction Coupling (A. 194) (B. 73) (C1- 167)
2. Myasthenia Gravis (A. 212) (B. 65) (C1-160)

4. Write notes on the following (08)

1. Oral contraceptives (A. 514) (B. 679) (C2-823)
2. Action potential in a nerve (A. 190) (B. 49,57,179) (C1-38 )

**Section B - (24 marks)**

5. Mention the important differences between the following (any two) (08)

1. Motor aphasia and sensory aphasia (C2- 1038)
2. Skeletal muscle and smooth muscle (C1-197 )
3. Presynaptic inhibition and Postsynaptic inhibition (C2- 862,863)





6. Draw diagram of the following (any two) (08)
  1. Organ of Corti(A. 1047,1048) (B. 927) (C2- 1071)
  2. Neural connections of cerebellum (C2- 968)
  3. Visual pathway (A. 989) (B. 904) (C2-1094)
7. Describe (08)
  1. Coding of sensory information (C2-873)
  2. Functions of Testosterone (A. 480) (B. 640) (C2- 796)
8. Write notes on the following (08)
  1. REM sleep(A-967) (C2- 989)
  2. Cushing syndrome (A. 452) (B. 593) (C2-729)

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