



RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-

PAPER – I July 2013 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. Antibodies develop against acetylcholine gated sodium channels. (C1-160)
 2. If the eye ball is too short or lens is too weak. (C2- 1105)
 3. Spinal cord is transected in upper neck. (C2- 936)
 4. If an acidophilic tumour occurs after adolescence (C2- 673)
 5. If testes do not descend into abdomen at birth. (C2- 797) synapse(A. 817) (B. 700)(C2- 865)
2. Functions of muscle spindle(A. 945) (B. 822)(C2- 883)
 3. Explain with the help of a graph/diagram: (8)
 1. Caudate circuit of basal ganglia (C2-996)
 2. Auditory pathway (C2- 1072)
 4. Write notes on following (8)
 1. Adaptation of receptors (A. 776) (B. 459) (C2- 875)
 2. Mechanism of accommodation of Eye (A. 995) (B. 894) (C2- 1103)

Section B - (24 marks)

5. Mention differences between (any two)(8)
 1. REM and NREM sleep(A-967) (C2- 988)
 2. Short term and long term memory (C2- 1042)
 3. Dorsal column pathway and Anterolateral pathway (C2- 895)
6. Draw labelled diagram of the following(any two) (8)
 1. Analgesia system (C2- 904)





2. Regulation of thyroid secretion (C2-692)
3. Hormonal changes in menstrual cycle. (A. 482) (B. 655) (C2- 804)
7. Describe (8)
 1. Actions of Parathyroid Hormone (A. 400) (B. 572) (C2- 713)
 2. Actions of Testosterone (A. 480) (B. 640) (C2- 796)
8. Write (8)
 1. Cushing's syndrome (A. 452) (B. 593) (C2- 729)
 2. Colour blindness (C2- 1115)

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