



RUHS RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-

PAPER – I July 2014 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 & why?
 - a) If total serum Ca ions concentration fall to 50% of normal. (C2- 717)
 - b) If gonads are absent, sex chromatin test is negative & karyotype pattern is 'X0'. (C2- 779)
 - c) If decreased circulating levels of free T4 & T3 in infants. (C2- 698)
 - d) If there is degeneration of dopaminergic nigrostriatal tract. (C2- 999)
 - e) If either length of the eyeball is too short or refractive power of the lens decreases (C2-1105)
2. Describe:
 - a) Functions of middle ear. (C2- 1075)
 - b) Sliding filament mechanism of skeletal muscle contraction (C1- 168)
3. Explain with the help of diagram
 - a) Strength duration curve (C1- 145)
 - b) Primary taste sensation (C2- 1064)
4. Write notes on the following:
 - a) Dark adaptation (C2- 1109)
 - b) Referred pain (C2- 904)

SECTION B

5. Mention differences between (any two)
 - a) Diabetes mellitus & Diabetes insipidus (C2-757,681)
 - b) Pyramidal & extrapyramidal tracts (C2-913,917)
 - c) Isotonic & Isometric contraction (C1-170)
6. Draw labelled diagram of the following (any two)
 - a) Synapse (C2- 858)





b) Spermatogenesis (C2- 790)

c) Action potential in myelinated nerve fibre (C1-41)

7. Describe

a) Functions of basal ganglia (C2- 996)

b) Non metabolic functions of glucocorticoid hormone (C2- 726)

8. Write notes on

a) Na-k pump (C1- 18)

b) Oral contraceptives (C2- 823)

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