



RUHS RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-

PAPER – I January 2015 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)

Q1. Explain what will happen and why?

- a) Dopamine deficiency in Basal Ganglia
- b) If curvature of cornea is irregular
- c) Effect of insulin deficiency on blood sugar levels
- d) If LH surge in ovulatory cycle is absent
- e) $1\alpha, 25(OH)_2D$ levels in Addison's disease

Q2. Write notes on

- a) Apoptosis (C1- 12)
- b) Hemi-section spinal cord (C2- 935)

Q3. Differentiate between

- a) UMN and LMN paralysis (C2- 919)
- b) Pituitary and thyroid dwarf

Q4. Write notes on

- a) Functions of cerebellum (C2- 972)
- b) Spermatogenesis (C2- 790)

SECTION B

Q5. Describe

- a) Organ of Corti (C2- 1071)
- b) Colour blindness (C2- 1114)

Q6. Write notes on following

- a) Secondary active transport (C1- 20)
- c) Cushing's syndrome (C2- 729)





Q7. Describe

- a) REM sleep (C2- 989)
- b) Safe period (C2- 820)

Q8. Write notes on

- a) Muscle spindle (C2- 881)
- b) Feto-placental unit (C2- 928)

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