



RUHS RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-

PAPER – I January 2016 (Main) 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. What will happen and why?

- a) To time of nerve transmission in polysynaptic pathway. (C2- 866)
- b) To touch sensation on an inflamed area
- c) To colour perception in dim light (C2- 1107)
- d) To cervical mucus during ovulation (C2- 809)
- e) To the quantity of diet in diabetic person (C2-756) 36)

b) Myasthenia gravis (C1- 160)

Q3. Explain with diagrams:

- a) Action potential of a neuron (C1- 38)
- b) Hormonal changes during a menstrual cycle (C2- 809)

Q4. Write short note on

- a) Turner's syndrome (C2- 779)
- b) Sertoli cells (C2- 790)

SECTION B

Q5. Mention differences (attempt any two)

- a) IPSP and EPSP (C2- 859)
- b) Sympathetic and parasympathetic nervous system (C2-924)
- c) Pituitary and thyroid dwarf (C2- 675)

Q6. Draw diagrams/flow charts of the following (any two)

- a) Structure of a sarcomere (C1- 164)
- b) Photoreceptor mechanism (C2- 1110)





c) Visual pathway (C2- 1093)

Q7. Write short notes on

a) Active transport (C1- 18)

b) Posterior pituitary hormones (C2- 679)

Q8. Describe

a) Regulation of Aldosterone secretion (C2- 732)

b) Somatomedins (C2- 671)

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