



RUHS RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-

PAPER – I August 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. Give reasons for following (max. 3 lines/Sentences) 10

- a) Pregnant woman have high total plasma cortisol level without symptoms of glucocorticoid excess (C2-830)
- b) Radiologists / Aircraft pilots wear red glasses in bright light (C2- 1110)
- c) Neostigmine is given for the treatment of myasthenia Gravis (C1- 160)
- e) A lady breast feeding her baby has amenorrhoea (C2- 845)

Q2. Describe in brief 08

- a) Supraspinal control of stretch reflex (C2- 884)
- b) Fetoplacental Unit (C2- 928)

Q3. Write the difference between (any two)

- a) Receptor potential and action potential (C1- 38)
- b) Superficial pain and deep pain (C2-902)
- b) Red muscle fibre and white muscle fibre (C1-174)

Q4. Write in short

- a) Thyroid storm
- b) Osmosis (C1- 17)
- c) Non genomic action of aldosterone (Google: Non-epithelial action:Heart, blood vessels & Brain)
- d) Lambert Eaton Syndrome (C1- 160)

SECTION B

Q5. Describe the following

- a) Aldosterone Escape (C2-732)





b) Properties of Synapse (C2- 865)

Q6. Draw a labeled diagram/ flow chart any two

a) Sarcomere (C1-163)

b) Hypothalamus pituitary gonadal axis (C2-797)

c) Structure of cerebellum (C2-965)

Q7. Write in brief

a) Referred pain (C2- 904)

b) Suckling reflex (C2-682)

Q8. Discuss the following

a) HCG (C2-826)

b) Composition and functions of CSF (C1- 373)

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