



RUHS RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS- PAPER -II

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). What will happen and why? (max. 3 sentences/lines) 10

- a) To respiration after an Act of Hyperventilation (C1- 456)
- b) To blood pH after a meal (C1- 222)
- c) To heart rate during inspiration and expiration (C1- 339)
- d) To GFR if blood pressure falls (C1- 522)
- e) When platelet count is decreased (C1-106)

Q2. Describe briefly 08

- a) Surfactant (C1- 408)
- b) Fibrinolytic system (C1- 103)

Q3. Describe briefly 08

- a) Gastro colic reflex (C1- 256)
- b) Malignant hyperthermia
- c) Transport maximum for glucose (C1- 529)
- d) Resistance vessels (C1- 349)

Q4. Write in brief 08

- a) Body response in cold climate (C1- 378)
- b) Juxtamedullary nephrons (C1- 510)

SECTION B

Q5. Write in short 08

- a) Dead space air (C1- 426)
- b) Dicoumarol (C1- 104)
- c) Deglutition apnea (C1- 215)





d) Neonatal Jaundice (C1- 80)

Q6. Write in brief 08

a) Intestinal movements (C1- 251)

b) Factors affecting GFR(A. 320) (B. 388) (C1- 522)

Q7. Draw labeled diagram / flow chart 08

a) FEV1 in normal and obstructive airways disease (C1- 417)

b) Intrinsic pathway of coagulation (C1- 101)

c) HCl secretion in stomach (C1- 222)

d) BER (C1- 226)

Q8. Describe in short 08

a) Neural control of respiration (C1- 444)

b) Coronary circulation (C1- 361)

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