

c) Rh incompatibility (C1- 111)

d) Buffer nerves (C1-334)

Q6. Write notes on 08

a) Types of jaundice (C1- 81)

b) Renin-angiotensin mechanism (C1- 565)

Q7. Draw diagram/ flow charts of the following 08

a) Cell mediated immunity (C1- 127)

b) Lung volumes and capacities (C1- 415)

c) Action potential of cardiac muscle (C1- 180)

d) Micturition reflex (C1- 581)

Q8. Write notes on 08

a) Thermoregulatory mechanisms on exposure to cold environment (C1- 591)

b) Types of hypoxia (C1- 461)

RUHS RUHS FIRST YEAR MBBS EXAMINATION

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-

PAPER – I August 2015 (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)

1. Explain what will happen and why?10

1. Damage to Boardman's area 44 in prefrontal lobe of dominant hemisphere. (C2- 1039)

2. Decrease in plasma ionized Ca. -2- level below 4 mg/dl. (C2- 717)

3. If curvature of the cornea is more than normal. (C2- 1105)

4. If corpus luteum fails to secrete its hormone after fertilization has occurred. (C2-812 (A. 504) (B. 655)

5. If poster ventral nucleus of thalamus gets damaged. (C2- 983)

2. Describe 08

1. Excitation contractions coupling mechanism. (C1- 168)

2. Alzheimer's disease (C2- 1043)

3. Explain 08

1. Olfactory pathway (A. 1049) (B. 943)(C2- 1058)

2. Gate control theory of referred pain (A. 873) (B. 807)(C2- 904)

4. Write 08

1. Audiometry (C2- 1082)

2. Otolith organ (A. 926)(C2-943)

Section B - (24 marks)

5. Mention difference between (any two) 08

1. Stretch reflex and withdrawal reflex (A-828)(C2- 881)

2. Cushing's disease and Addison's disease (A. 454) (B. 595)(C2- 729)

3. Pyramidal and extrapyramidal tracts. (A. 869) (B. 730) (C2-913,917)

6. Draw labelled diagram of the following

(any two) 08

1. Light reflex pathway (A. 1030) (B. 921) (C2- 1100)

2. Mechanism of action of Hormones (A. 386) (B. 529) (C2- 661)

3. Basal ganglia connections (A. 880) (B. 729) (C2- 996)

7. Describe 08

1. Resting membrane potential (A. 188) (B. 25) (C1- 35)

2. Vasopressin (C2- 679)

8. Write short notes on 08

1. Endoplasmic reticulum (A. 8) (B. 10) (C1- 8)

2. Oral contraceptive pills (C2- 823)