

**RUHS RUHS FIRST YEAR MBBS EXAMINATION****HU1VIAN PHYSIOLOGY INCLUDING BIOPHYSICS-****PAPER – I August 2017 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.

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**Section A - (26 Marks)****Q1. Explain what will happen and why? 10**

- a) If hypothalamic ventromedial nucleus is damaged (C2- 1010)
- b) If testosterone is administered exogenously (C2- 823)
- c) To pupil in oculomotor nerve paralysis (C2- 1118)
- d) After prolonged hyperventilation (C1- 456)
- e) To menstrual cycle in pregnancy (A. 482) (B. 655) (C2- 812)

**Q2. Describe 08**

- a) Otolithorgan (A. 926) (C2- 943)
- b) Changes in maternal physiological systems during pregnancy (C2- 830)

**Q3. Explain with the help of diagram 08**

- a) Connection of Spino-cerebellum (C2- 970)
- b) Ovarian follicle (C2- 805)

**Q4. Write short note on 08**

- a) Secondary active transport (A-35) (B. 20) (C1- 20)
- b) Role of parasympathetic and sympathetic nerves in male Sexual act (C2- 818)

**SECTION B****Q5. Mention differences between 08**

- a) UMN & LMN lesion (C2- 919)
- b) EPSP & IPSP (A. 815) (B. 780) (C2- 859)

**Q6. Draw labelled diagram of the following any two****08**

- a) Auditory nervous pathway (C2- 1079)
- b) Feedback regulation of hypothalamic pituitary testicular axis in males (C2- 797)
- c) Pain & analgesic pathway (C2- 905)

Q7. Describe

08

- a) Feto-placental unit (C2- 928)
- b) Functions of basal ganglia(A. 880) (B. 729) (C2-998)

Q8. Write notes on

08

- a) Traveling waves (A. 1054) (B. 936)
- b) Steps of spermatogenesis and formation of sperm (A. 476) (B. 637) (C2- 790)

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