



**RUHS RUHS FIRST Year MBBS EXAMINATION**

**HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS-**

**PAPER – II July 2018 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**

Q1. What will happen and why?

- a) The corpus luteum removed in RUHS FIRST (1st ) trimester of pregnancy
- b) Space Physiology what is black out and red in.
- c) Person is suddenly exposed to high altitude
- d) What will happen to synchronized wave in EEG after opening eye?
- e) If Human RBC will be kept in 0. 6% NaCl

solution.

Q2. Describe in brief:

- a) Compliance
- b) Anticoagulant

Q3. Write in short

- a) Pavlov's Pouch
- b) Functions of skin
- c) Filtration Fraction
- d) Windkessel vessels

Q4. Write short notes on

- a) Body response after starvation
- b) Renin Angiotensin system

**SECTION B**

Q5. Describe the following

- a) Periodic breathing





- b) Erythrocyte Sedimentation Rate (ESP)
- c) Peristalsis
- d) Cyanosis

Q6. Write in brief

- a) Inulin clearance
- b) Mass reflex

Q7, Draw labelled diagram/ flow chart

- a) Spirogram
- h) Extrinsic pathway of coagulation
- c) Compensatory mechanism of Hemorrhagic shock
- d) Normal Electrocardiogram (ECG)

Q8, Discuss the following

- a) Chemoreceptor
- b) Fick's Principle

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