

**RUHS****First Year MBBS Examination****I MBBS PHYSIOLOGY PAPER II**

Time: 3 hours

Max Marks: 50

Date: 04-10-2020

*Instructions: INSTRUCTIONS: 1. Que. No.1 and 5 in section A and B are compulsory. Attempt ANY TWO questions from rest of the questions in each section. 2. Use separate answer sheet for each section.*

**Section 1**

1.Explain what will happen and why?5x2=10 (10)

- a) To red blood cells of foetus in Rh incompatibility.
- b) To colon movements immediately after a meal.
- c) To blood pressure immediately on standing up from lying supine position.
- d) To heart rate when there is hypotension.
- e) To respiration after severe exercise..... (Eg.100 mt SPRINT).

2.Describe briefly:2x4=08 (8)

- a) Plasma clearance (C1-541)
- b) Thrombolytic system.

3.Describe briefly: (8)

- a) Timed vital capacity. (C1-416)
  - b) Functions of saliva (A.225) (B.739) (C1-209)
  - c) Cardiac muscle action potential.
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d) Enteric nervous system.

4. Write short notes on: (8)

a) Peptic ulcer & physiological basis of treatment. (A.240) (8.477) (C1-228)

b) Short term regulation of blood pressure. (C1-353)

## Section 2

5. Describe briefly: 4x2-08 (8)

a) Megaloblastic anaemia.

b) Cell mediated immunity (C1-127)

c) Pulmonary surfactant

d) Electro cardiogram.

6. Write short notes on: (8)

a) Phases of gastric secretion. (C1-224)

b) Micturition reflex (A.355) (8.432) (C1-581)

7. Explain with diagrams/flow charts: 4x2-08 (8)

a) Pressure volume changes during cardiac cycle. (A.536-540) (B.206) (C1-287)

b) Renin angiotensin mechanism. (A.634) (B.261) (C1-733)

c) Changes in intra alveolar and intra pleural pressures during quiet respiration.

8. Write notes on: 2x4-08 (0)

a) Chemo receptors

b) Blood transfusion

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