

Date: 02-10-2021

1020 E461

First Year MBBS Examination

I MBBS Physiology Paper 2

Time: 3 hours

Max Marks: 50

Instructions: 1. Answer to the points. 2. Use separate answer books for each section. 3. Draw diagrams wherever necessary.

Section 1

1. Explain what will happen and why? (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.
- f) To respiration after severe exercise

2. Describe briefly: (8)

- a) Plasma clearance
- b) Thrombolytic system

3. Describe briefly: (8)

- a) Timed vital capacity
- b) Functions of saliva
- c) Cardiac muscle action potential
- d) Enteric nervous system

4. Write short notes on: (8)

- a) Peptic ulcer & physiological basis of treatment
- b) Short term regulation of blood pressure

Section 2

5. Describe briefly: (8)

- a) Megaloblastic anaemi
- b) Cell mediated immunity
- c) Pulmonary surfactant
- d) Electro cardiogram

6. Write short notes on: (8)

- a) Phases of gastric secretion
- b) Micturition reflex.

7. Explain with diagram /flow charts : (8)

- a) Pressure volume changes during cardiac cycle
- b) Rennin angiotensin mechanism
- c) Changes in intra alveolar and intra pleural pressures during quiet respiration
- d) Chloride shift

8. Write notes on: (8)

- a) Chemo receptors
 - b) Blood transfusion
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