

RUHS

First Year MBBS Examination

I MBBS PHYSIOLOGY PAPER II

Time: 3 hours

Max Marks: 50

Date: 05-07-2019

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. What will happen and why? (10)

- a) To heart rate during inspiration (C1-332)
- b) If shock patient is covered with a blanket
- c) TO urinary buffers in metabolic acidosis
- d) If blood of an incompatible type is transfused
- e) To cerebral blood flow during exercise

2. Describe: (8)

- a) Functional residual capacity
- b) Counter current multiplier mechanism (A.329)
(B.403)(C1-549)

3. Describe briefly: (8)

- a) Herring - Breuer reflex
 - b) A-V nodal delay
 - c) Laplace law
 - d) Isocapnic buffering
4. Write in brief on following: (8)
- a) Homeometric regulation of cardiac output
 - b) Platelets

Section 2

5. Write in short (8)
- a) Pharyngeal stage of deglutition (C1-215)
 - b) Mean arterial pressure
 - c) Glomerulo tubular balance
 - d) Von-willebrand factor
6. Write in brief: (8)
- a) Secretin(A.283) (8.485)(C1-236)
 - b) Extrinsic pathway of blood coagulation
7. Draw a labelled diagram/ flow chart: (8)
- a) ECG in lead II (A.556,557) (C1-294)
 - b) Length tension relationship in cardiac muscle
 - c) Enteroheptic circulation (C1-244)
 - d) Development of shock
8. Write short notes on: (8)
- a) Heart sounds (A.544) (B.211) (C1-282,291)
 - b) Chemical regulation of respiration (C1-449)

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