

Date: 03-07-2010

Instructions:

**RUHS**

**First Year MBBS Examination**

**I MBBS PHYSIOLOGY PAPER II**

Time: 3 hours Max Marks: 50

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: (10)
    - a. A cat is exposed to Barking Dog, it's heart rate increased (C2-932 )
    - b. Why hyperventilation is associated with Alkaline Urine (C1- 569)
    - c. Winter shivering helps in maintenance of body temperature (C1- 591)
    - d. What is the role of plasma fibrinogen on ESR?
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- e. What will happen of Foetal Haemoglobin persists in body after birth? (A.75) (B.111) (C1- 63)
- 2. Describe briefly (8)
  - a. What is surfactant? Describe its physiological and clinical importance. (A.715) (B.296)(C1- 419)
  - b. Define Haemostasis. Describe intrinsic and extrinsic mechanism of Coagulation(A.131) (8.156)(C1- 98)
- 3. Write short note of the following (8)
  - a. Functions of bile(A.252) (B.491)(C1- 245)
  - b. Phagocytosis(A.36) (B.126)(C1- 88)
  - c. Exocrine part of pancreas (C1- 233)
- 4. Describe in brief: (8)
  - a. Significance of different waves in ECG (C1- 295)
  - b. What is clearance? Write its application in renal function test. (A.335)(8.435)(C1- 541)

## Section 2

1. Discuss in short: (8)
    - a. Hyaline Membrane disease (C1- 420)
    - b. Periodic Breathing (C1- 456)
    - c. Cushing Reflex (C1- 339)
    - d. Aetiological Classification of Anaemia (C1- 73)
  2. Describe physiology of the following in brief (8)
    - a. Factors affecting and determinants of Arterial Blood pressure(A.605) (B.246)(C1- 351)
    - b. Define Timed Vital Capacity and its importance as Lung Function Test. (C1- 416)
  3. Explain with figure/flow chart (8)
    - a. Counter current Mechanism (A.329) (8.403) (C1- 549)
    - b. Oxygen Dissociation Curve(A.743) (8.326) (C1- 434)
    - c. Stages of Erythropoiesis (A.70) (B.104) (C1- 70)
    - d. Defecations Reflex (C1- 258)
  4. Write (8)
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- a. Renin Angiotensin Mechanism (A.634)  
(B.261)(C1- 733)
- b. Caisson's Disease (A.775) (B.362)(C1-  
477)

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