



**RAN-3702**

**First Year M.B.B.S. Examination**

**March / April - 2019**

**Physiology : Paper-I**

**Time: 2:30 Hours ]**

**[ Total Marks: 50**

**સૂચના : / Instructions**

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

**First Year M.B.B.S.**

Name of the Subject :

**Physiology : Paper-I**

Subject Code No.: **3 7 0 2**

Seat No.:

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Student's Signature

(2) Draw diagrams and flow chart wherever required.

**SECTION - I**

- |   |   |    |
|---|---|----|
| 1 | Describe in detail anticoagulant mechanism.   | 8  |
| 2 | Write short on any three<br>a) Timed vital capacity<br>b) Factors affecting Erythropoiesis<br>c) Micturition Reflex<br>d) Fate of haemoglobin | 12 |
| 3 | Answer in brief in 1-2 sentences: (any 5)<br>a) What is Antigen?<br>b) What is sinus arrhythmia?  | 5  |

- c) Define Mean blood pressure
- d) Desmosomes
- e) Pinocytosis
- f) What is inspiratory ramp?

**SECTION - II**

- 4 Write notes in short on any 4: 8
- a) Endothelium derived relaxing factor (EDRF)
  - b) Describe standard (Bipolar) limb leads
  - c) Cyanosis : Definition, Pathophysiology, Causes
  - d) Mechanism of secretion of HCl in stomach
  - e) Absorption of Fats
- 5 Write short notes on any 3: 12
- a) Explain the mechanism of venous return, how does it affect cardiac output
  - b) What is deglutition? Explain its mechanism in detail
  - c) Infants respiratory distress syndrome
  - d) Describe short term regulation of blood pressure
- 6 Answer in brief for any 5: 5
- a) What is peristaltic rush?
  - b) Marey's Law
  - c) What is one kidney Goldblatt hypertension?
  - d) Inhalation of 100% pure O<sub>2</sub> in normal individuals may cause decrease in respiration.
  - e) Surfactant helps to prevent pulmonary oedema by reducing surface tension. How?
  - f) Why is creatinine clearance used as a measure of glomerular filtration rate (GFR)?
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