



RAN-1806000101020001

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

**November / December - 2019**

**Physiology : Paper - I**

**Time: 2 1/2 Hours ]**

**[ Total Marks: 50**

**સૂચના : / Instructions**

**(1)**

<p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: First Year M.B.B.S.</p> <p>Name of the Subject : Physiology : Paper - I</p> <p>Subject Code No.: 1806000101020001</p>	<p>Seat No.:</p> <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>Student's Signature</p>						

**(2)** Draw diagrams and flow chart wherever required.

**SECTION - I**

- 1 Define haemostasis? Write its steps. Describe Coagulation of Blood in detail. 8
- 2 Write notes on any three 12
  - a) Explain negative feedback system.
  - b) Classify Blood group system. How is it inherited
  - c) Describe functions of T lymphocytes
  - d) Length Tension Relationship in Muscle contraction
- 3 Answer in brief in 1-2 sentences: (any 5) 5
  - a) What is autoimmunization?
  - b) Enumerate factors which increase flow of lymph.
  - c) Define apoptosis and write its uses.
  - d) Cardiac muscles function as if it were a functional syncytium.
  - e) Function of peroxisomes
  - f) Frusemide is used as loop diuretic.

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**SECTION - II**

- 4 Write notes in short on (any 4) 8**
- a) Describe ventricular diastole in cardiac cycle.
  - b) Hb-O<sub>2</sub> Dissociation curve
  - c) Surfactant
  - d) Pancreatic Juice Composition
  - e) Factors affecting Gastric Emptying
- 5 Write short notes on (any 3) 12**
- a) Define Oedema, write its Mechanism & Causes
  - b) Types of Blood Vessels
  - c) Neural Control of Respiration
  - d) Gastrin
- 6 Answer in briefly for (any 5) 5**
- a) Enterogastric reflex
  - b) Explain Law of Laplace
  - c) What is capillary fluid shift mechanism?
  - d) What is stagnant hypoxia?
  - e) Explain rigor mortis
  - f) What is AV nodal delay?