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RAN-2406120101010501

M. D. (Anaesthesiology) Examination April - 2025

Anaesthesiology Paper - 1

(Basic Science Applied to Anaesthesiology)

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

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

Name of the Examination:

M. D. (Anaesthesiology)

Name of the Subject :

Anaesthesiology Paper - 1 (Basic Science Applied to Anaesthesiology)

Subject Code No.: **2406120101010501**

Seat No.:

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Student's Signature

Q.1 Discuss in brief:

- (1) Write briefly with the help of diagrams about the flow volume loop in lung spirometry and discuss their interpretation **10**
- (2) Describe the Mapleson classification of breathing circuits. Write functional analysis of the Bains circuit **10**

Q.2 Write briefly on:

- (1) Discuss physiology of thermoregulation and causes of dysregulation of thermoregulation during anaesthesia. **10**
- (2) Describe Oxygen Hemoglobin Dissociation Curve and enumerate the factors producing leftward and rightward shift of curve **10**

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- Q.3 Write notes on:**
- (1) Discuss Metabolic equivalents of task (METs) and its relevance in anaesthesia **10**
 - (2) Describe anatomy of celiac plexus. Write indications & complications of celiac plexus block. **10**
- Q.4. Write about following:**
- (1) Describe the aetiology and management of perioperative hyperkalemia **10**
 - (2) Describe the pathophysiology of stress response during intubation and methods for prevention **10**
- Q.5 Write short notes on:** **20**
- (1) Thromboelastography
 - (2) Alpha 2 agonists in neuraxial blockade
 - (3) Endtidal CO₂ monitoring
 - (4) John Snow
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