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## P.G. Diploma Regular/Supplementary Examinations in Anaesthesiology (DA) May 2022

## Paper I - Basic Sciences as Applied to Anaesthesiology

Time: 3 hrs Max marks:100

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essay: (20)

 Draw a normal capnogram and explain its components. What is the principle of capnography. Explain the advantages and disadvantages of mainstream and side stream capnography

Short essays: (8x10=80)

- Define Minimum Alveolar Concentration (MAC) of volatile anaesthetic agents;
  enumerate physiological and pharmacological factors affecting MAC.
- 3. Describe thyroid function tests with its anaesthetic implication.
- 4. Historical aspects of evolution of Boyles machine.
- 5. Enumerate bedside pulmonary function tests. Explain their clinical significance. What is the effect of smoking on respiratory physiology. (2+3+5)
- Describe the physiology of neuromuscular junction and classify the neuromuscular blocking agents.
- 7. Protamine sulphate pharmacology and its anaesthetic implication.
- 8. Define venturi principle and Discuss the various application in anaesthesia.
- Classify antihypertensives. How do you manage perioperative hypertensive crisis.

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