

ANAESTHESIOLOGY

PAPER-I

TIME: 3 HOURS

ANS/D/20/01/I

MAX. MARKS: 100

IMPORTANT INSTRUCTIONS

- **You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.**
- **This question paper consists of 10 short note questions. Question paper is divided into 5 Parts - A, B, C, D and E, each part containing 2 questions.**
- **Answers to questions of part A, part B, part C, part D & part E are to be strictly attempted in a separate answer sheet booklet which must be later tagged together at the end of the exam.**
- **No additional supplementary answer sheet booklet will be provided.**
- **Answers to question(s) attempted on an answer sheet booklet for a different part will not be evaluated.**
- **Part A/Part B /Part C/Part D/Part E should be mentioned on the covering page of the respective answer sheet booklet.**
- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

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PART- A

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Write short notes on:

PART - A

1. a) Discuss the implications of autonomic neuropathy in a patient undergoing general anaesthesia. 5+5
b) Describe the non-invasive tests for assessment of autonomic neuropathy in a diabetic patient.
2. a) Describe the anatomy of the paravertebral space with the help of a diagram. 5+5
b) Briefly enumerate the methods of providing post-operative analgesia in a patient of carcinoma breast.

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PART- B

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Write short notes on:

PART - B

3. a) What is preload and after load? 5+5
b) What are the determinants of left ventricular diastolic function?
4. a) Pathophysiology of nausea and vomiting. 2+8
b) Pharmacological strategies to prevent nausea and vomiting in perioperative period.

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PART- C

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Write short notes on:

PART - C

5. What are the recommendations for the prevention and management of operating room fires? 10
6. a) Null hypothesis and “p” value. 5+5
b) Reynolds number and its clinical applications.

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PART- D

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Write short notes on:

PART - D

7. Discuss the ethical issues: 5+5
- a) In organ transplantation.
 - b) In children as research subjects.
8. a) Enumerate the changes in the respiratory system in a 75-year-old patient. 5+5
- b) What are the anaesthetic implications if this patient will undergo an elective upper abdominal surgery under general anaesthesia?

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PART- E

TIME: 3 HOURS

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Write short notes on:

PART - E

9. a) Define pregnancy induced hypertension. 2+8
b) Briefly discuss its effects on the circulatory system and the obstetric airway.
10. a) Enumerate the functions of the kidney. 5+5
b) Discuss the counter current mechanism in the kidney with the help of diagram(s).