

ANAESTHESIOLOGY
PAPER-I

TIME: 3 HOURS
MAX. MARKS: 100

ANS/J/20/01/I

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part “A” and part “B”, each part containing 5 questions.
- Answers to questions of part A and part B are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheet(s) of part B or Vice versa shall not be evaluated.
- Answer sheets of Part A and Part B are not to be tagged together.
- Part A and Part B should be mentioned only on the covering page of the respective answer sheets.
- 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.

Write short notes on:

PART A

1. Describe the principle of capnography. Describe the different components of a time capnogram with a labeled diagram. 4+6
2. Discuss the physiology and applications of Positive End Expiratory Pressure (PEEP). 5+5
3. a) Temperature monitoring in neonates. 5+5
b) Nitrous Oxide in anaesthesia practice.
4. Define Hyperkalemia. Describe the clinical features and ECG findings of hyperkalemia with reference to serum potassium levels. Describe the management of hyperkalemia. 1+3+6
5. What is type I and type II error in statistics? Write briefly on p value. 5+5

P.T.O

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Please read carefully the important instructions mentioned on Page '1'

- Answers to questions of Part A and part B are to be strictly attempted in separate answer sheets and the main + supplementary answer sheets used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheets of Part B or vice versa shall not be evaluated.

PART B

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|---|---------|
| 6. What are the Medical gases commonly used in Anaesthesia, source of medical oxygen, storage and detailed description of liquid oxygen storage tank? | 1+2+2+5 |
| 7. a) What are different types of hypoxia? Discuss in brief.
b) Describe hypoxic hypoxia in detail. | 5+5 |
| 8. a) Atrial fibrillation.
b) Oxygen flux. | 5+5 |
| 9. What are the effects of propofol on the cardiovascular system? Describe the precautions and management to minimize these effects. | 5+5 |
| 10. Discuss briefly the concept of anaesthesia "crisis resource management" (CRM). Enumerate the key points of CRM. | 6+4 |
