

ANAESTHESIOLOGY

PAPER – I

ANAES/APRIL/16/01/I

Time : 3 hours
Max. Marks : 100

Important instructions:

- 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:

1. a) Define 'Crush syndrome'. 2+4+4
b) Pathogenesis of shock and acute renal failure in Crush syndrome.
c) How will you manage such a case?
2. Methods for cleaning and sterilization of Supraglottic Airway Devices (SAD). 5+5
3. a) Various indications and disadvantages of Trendelenberg's position during anaesthesia and surgery. (2+5)+3
b) How can these be prevented?
4. Differentiate between standard deviation and standard error in case of quantitative data. 10
5. a) What are universal precautions for HIV, HBV & HCV? 5+5
b) Transmission based precautions.
6. Various safety features incorporated in modern anaesthesia machines. 10
7. a) What is the mechanism of action of neuraxial opioids? 3+2+5
b) Enumerate commonly used drugs for neuraxial block with their doses.
c) What are their advantages and adverse effects?
8. Enumerate the changes in cardiovascular and respiratory systems in a full term pregnant patient. 10
9. Anaesthesia & Neurotoxicity. 10
10. a) Permissive hypercapnia. 5+5
b) Dynamic hyperinflation and internal (occult) PEEP.
