

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Anaesthesia Technology Degree Examination – 13-May-2025

Time: Three Hours

Max. Marks: 100 Marks

Introduction to Anaesthesia Technology (RS-3)

Q.P. CODE: 3268

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice)

2 x 10 = 20 Marks

1. Classify breathing system. Explain the differences between Bains circuit and Jackson Rees system.
2. Define hypoxia. What are the types of Hypoxia? What are the clinical signs of Hypoxia? What are the different modalities of oxygen therapy?

OR

Describe the different types of vaporizers, their hazards, maintenance, filling of the vaporizers and draining.

SHORT ESSAYS (Question No.5 & 10 choice)

10 x 5 = 50 Marks

3. Write and draw a neat diagram on parts of the airway and its features? What are the its uses?
4. Define Boyle's law and Charles law.
5. What are the different waveforms in capnography? Explain with diagram.

OR

What is autoclaving? Explain its characteristics, advantages and disadvantages.

6. Glutaraldehyde.
7. Explain intermediate pressure system in anaesthesia machine.
8. Intraoperative monitoring.
9. What are the flows and pressure at which oxygen is delivered from oxygen flush? What are its hazards?
10. Short note on pressure relief valve.

OR

Pin index safety system.

11. What are ten golden rules of anesthesia?
12. What is ethylene oxide? How does it act? What is the major problem of ethylene oxide?

SHORT ANSWER (Question No. 15 & 20 choice)

10 x 3 = 30 Marks

13. O₂ cylinders.
14. Entonox.
15. High pressure system in anesthesia.

OR

Complications of intubation.

16. Hypercapnia.
17. Styilet and its uses.
18. Color coding of vaporizers.
19. Difference between sterilization and disinfection.
20. Define non-rebreather valve and its properties.

OR

Flexometallic endotracheal tube.

21. Dalton's law of partial pressure.
22. What is saturated vapour pressure?
