

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Anaesthesia Technology Degree Examination – 12-May-2026

Time: Three Hours

Max. Marks: 100

INTRODUCTION TO ANAESTHESIA TECHNOLOGY (RS-3)

Q.P. CODE: 3268
(QP Contained two pages)

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. Describe Boyle's anaesthesia machine in detail, with appropriate diagrams. Write a brief note on the importance of checking the anaesthesia machine including the key features of the machine check list
2. Define Hypoxia. Categorise the types and briefly explain each type. Add a note on goals of oxygen therapy

OR

Describe with a neat, labelled diagram, the parts and features of an endotracheal tube. List four complications of endotracheal tube use. List out the different types of endotracheal tubes, with one advantage and one disadvantages of each

SHORT ESSAYS (Question No.5 & 10 choice)

10 x 5 = 50 Marks

3. a) Capnography: working principle, normal graph uses
b) Pulse oximetry: working principle, labelled diagram, uses, sites
4. Classify breathing systems. Describe any one in detail with a neat labelled diagram
5. Enlist the gas laws. Elaborate any two in detail with applications in anaesthesia

OR

List out the methods of sterilization. How are the following sterilized / disinfected?

- a) Anaesthesia machine
 - b) Laryngoscope and its blade
 - c) Endotracheal tube
 - d) Epidural needle
 - e) Nasopharyngeal temperature probe
6. Write a brief note on W.T.G. Morton and his contributions
 7. Elaborate on the Golden rules of anaesthesia
 8. Explain in detail the importance of informed consent
 9. Define oxygen therapy. Classify the various devices used for oxygen delivery. List a few hazards of O₂ therapy
 10. Categorise the different types of Vapourisers. Enlist some points regarding the care and hazards of Vapourisers. How do we fill them

OR

Colour coding in anaesthesia

11. Add a note on evolution of drugs, equipment and techniques in the modern anaesthesia era
12. Mallampati grading. Explain with labelled diagrams

SHORT ANSWER (Question No. 15 & 20 choice)

10 x 3 = 30 Marks

13. Components of sodalime canister
14. a) Use of oxygen flush
b) Pressure and velocity of O₂ on usage of the flush

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15. Diameter index safety system

OR

Ayre's T piece

16. Guedel's airway

17. Premedication and purpose of each drug

18. Complications of spinal anaesthesia

19. Bodok's seal

20. What are the different types of gas flows? What gas laws govern them?

OR

What is Entonox? Mention the uses and precautions to be taken during use

21. World anaesthesia day

22. Differential anatomical and apparatus dead space
