

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Sc Operation Theatre Technology Degree Examination – 29-Oct-2025**

**Time: Three Hours**

**Max. Marks: 100 Marks**

**OPERATION THEATRE TECHNOLOGY – APPLIED- PAPER-II (RS-3)**  
**Q.P. CODE: 3409**

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. Write in detail about Breathing system. Draw a neat labelled diagram of Bain's circuit. Mention the advantages and disadvantages of Bain's circuit
2. What is tracheostomy? Write the advantages, indications and complications. Write the various types of tracheostomy tube

**OR**

What is endotracheal intubation? Explain in detail the requirements of endotracheal intubation

**SHORT ESSAYS (Question No.5 & 10 choice)**

**10 x 5 = 50 Marks**

3. What is central gas supply? Write the advantages
4. Write a short note on MRI
5. Fumigation of operation theatre

**OR**

Write a short note on suction apparatus

6. Name the IV anaesthetic drugs. How does it work?
7. What is endoscopy? What are the equipments you will arrange for an upper gastro intestinal endoscopy?
8. Role of muscle relaxant in anaesthesia
9. What is hypothermia? Mention the sites to monitor core body temperature. Write any four drugs used to prevent or treat shivering
10. What are the advantages and disadvantages of local anaesthesia

**OR**

Write the complications of blood transfusion

11. What is Minimum Alveolar Concentration? Mention the factors that increase and decrease MAC
12. Balanced anaesthesia

**SHORT ANSWER (Question No. 15 & 20 choice)**

**10 x 3 = 30 Marks**

13. Tests for identifying leaks in anaesthesia machine
14. Inhalational anaesthetic agents
15. Uses of ETCO<sub>2</sub> monitoring

**OR**

Write the Mallampati classification

16. Mention the drugs to reduce preoperative anxiety
17. Fine needle aspiration cytology
18. Name the complications of spinal anaesthesia
19. Write the purpose of pre oxygenation before the induction of anaesthesia
20. Write the pin index of air, oxygen and nitrous oxide

**OR**

Write the requirements for an emergency tracheostomy

21. Uses of oral airways
22. Write the adverse effects of succinylcholine

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