

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Operation Theatre Technology

[Time: 3 Hours]

[Max. Marks: 80]

III SEMESTER

PAPER - I (Introduction to Operation Theatre Technology)

QP CODE: 8345

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain all techniques of hand washing, gown, cap, mask and gloves packing and sterilization.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. How will you do post-operative care of total thyroidectomy patient.
3. What are the various sutures and instruments used for abdominal closure?
4. Discuss the pre-operative preparation and various instruments required for varicose vein surgery
5. Discuss the precautions in taking care of HIV positive patient in operation theatre.
6. Discuss various surgical drains used in operation theatre.
7. Discuss pre-operative preparation and instruments required for skin grafting.
8. Chemical methods of sterilisation
9. Indicators for sterilisation
10. Describe different positions for surgical procedures

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Central gas supply
12. Safe disposal of blood products in OT
13. Uses of C-arm in OT
14. Safe disposal of pointed objects in OT
15. Maintenance of endoscopes
16. Eye care of patient on ventilator.
17. Indications of blood transfusion.
18. Eto sterilisation
19. Pasteurization
20. Tyndallisation
21. Cissd layout

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III SEMESTER

PAPER - II (Introduction to Anaesthesia Technology)

QP CODE: 8346

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Define general anaesthesia. Explain its stages, advantages, disadvantages, and complications.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain pre-operative preparation of a patient before giving anaesthesia.
3. Write a short note on intravenous anaesthetic agents.
4. Describe the setup and functions of an anaesthesia workstation.
5. Explain the methods of patient monitoring during anaesthesia.
6. Write a short note on oxygen cylinder – color code, parts, and safety measures.
7. What are the differences between epidural and spinal anaesthesia?
8. Explain the role of the anaesthesia technician during surgery.
9. Write a short note on the care and maintenance of laryngoscopes.
10. Explain the importance of informed consent and its contents.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define local anaesthesia.
12. Mention any two drugs used for induction of anaesthesia.
13. Name two complications of endotracheal intubation.
14. What are the parts of an endotracheal tube?
15. What is conscious sedation?
16. Define ASA classification.
17. What is premedication?
18. Mention two functions of a vaporizer.
19. Define recovery room.
20. What is the importance of positioning a patient correctly?
21. Mention two safety precautions in the OT for anaesthesia.

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Jan-26

[Time: 3 Hours]

[Max. Marks: 80]

III SEMESTER

PAPER - III (Principles of Anaesthesia)

QP CODE: 8347

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What is a breathing system? Explain in detail the Mapleson classification and describe the Bain and Jackson Rees circuits

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write about the medical gas pipeline system and its safety devices.
3. Explain the components and working of an anaesthesia workstation.
4. Describe the principles of patient monitoring in OT.
5. Write a short note on administration of oxygen and its indications.
6. Explain the classification and functions of non-rebreathing valves.
7. Write a short note on blood sugar monitoring and its importance before surgery.
8. Discuss the nursing care of a patient with medical illness under anaesthesia.
9. Explain the functions of vaporizers in anaesthesia.
10. Write short notes on infection control and personal protective equipment in OT.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define non-rebreathing system.
12. Write two uses of Jackson Rees circuit.
13. Mention two types of humidifiers.
14. What is scavenging of waste gases?
15. Write the full form of N₂O and its use.
16. Define anaesthesia.
17. Mention two examples of intravenous fluids.
18. Write two advantages of pulse oximetry.
19. What is the purpose of a flowmeter?
20. Define aseptic precautions.
21. Name two emergency drugs used during anaesthesia.

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[Max. Marks: 80]

III SEMESTER

PAPER - IV (ATOT Directed Clinical Education I)

QP CODE: 8348

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Discuss the preparation, setup, and role of OT personnel in orthopedic and endoscopic surgeries.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write about the preparation of the surgical suite and zoning system.
3. Describe different types of general surgical procedures performed in OT.
4. Explain the procedure and care during urology surgeries.
5. Write a short note on surgical instruments used in OBG operations.
6. Describe common complications seen after general surgeries and their management.
7. Write about the functions of suction apparatus and its importance in surgery.
8. Discuss the principles of maintaining aseptic techniques in OT.
9. Write a note on the handling and disposal of biomedical waste in surgery.
10. Describe the duties of an OT technician during emergency operations.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Mention two urology operations.
12. Define draping.
13. Write two instruments used in ENT surgery.
14. Mention any two surgical positions.
15. What is a biopsy?
16. Define endoscopy.
17. Write two uses of a tourniquet.
18. Mention two common postoperative complications.
19. What is informed consent?
20. Name two types of bandages.
21. What is the purpose of the recovery room?