

B. Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE) (BOT)
SEMESTER -VI EXAMINATION, SEPTEMBER- 2026

SPECIALTY ANESTHESIA

[Time allotted: Three Hours]

[Max Marks: 100]

Note: Read all the instructions carefully

Answer all questions in serial order. Draw suitable diagrams wherever necessary

Q. 1. Objective type questions: (Attempt All)

(10 x 02 = 20)

(Very short/ short answer/ MCQ/ One liners/ Fill in the blanks/ True/False)

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| a. State one indication for regional anaesthesia. | CO 1, PO1, 7, PO8, PO9 |
| b. What is the full form of BIS in anaesthesia monitoring? | CO 1, PO1, 7, PO8, PO9 |
| c. Mention one complication of spinal anaesthesia. | CO 1, PO1, 7, PO8, PO9 |
| d. Which muscle relaxant is used for rapid sequence induction? | CO 1, PO1, 7, PO8, PO9 |
| e. Define general anaesthesia in one line. | CO 1, PO1, 7, PO8, PO9 |
| f. State one complication of endotracheal intubation. | CO3, PO 9 |
| g. What is informed consent? | CO 3, PO2, 7, PO9 |
| h. Mention one anaesthetic concern in paediatric surgeries. | CO 1, PO1, 7, PO8, PO9 |
| i. Write one duty of an OT technologist during renal transplant surgery. | CO 1, PO1, 7, PO8, PO9 |
| j. Expand the abbreviation "HIS" used in hospital systems. | CO 3, PO2, 7, PO9 |

Q. 2. Short notes/ Short answer type questions (Attempt any Five)

(05 x 04 = 20)

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| a. Write the anaesthetic concerns in cardiothoracic surgeries. | CO 1, PO1, PO7, PO8, PO9 |
| b. Explain the preparation of difficult airway cart in OT for neurological surgeries. | CO 1, PO1, 7, PO8, PO9 |
| c. List the medicolegal aspects and duties of OT technologists in operation theatre. | CO6, PO1, PO2, PO3, PO4, PO7, PO9 |
| d. Briefly describe different types of maintenance in hospital equipment. | CO 1, PO1, 7, PO8, PO9 |
| e. Write short notes on consent and confidentiality in medical ethics. | CO 3, PO2, 7, PO9 |
| f. Write briefly about anaesthetic requirements in paediatric surgeries. | CO 1, PO1, 7, PO8, PO9 |
| g. Explain the importance of book keeping and stock maintenance in the operation theatre. | CO2, PO9 |

Q. 3. Structured questions (Attempt any Three)

(03 x 10 = 30)

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| a. Anaesthesia in Paediatric Surgeries | CO 1, PO1, 7, PO8, PO9 |
| (i) Preoperative assessment in children | |
| (ii) Anaesthetic techniques used | |
| (iii) Postoperative considerations | |
| b. Renal Transplant Anaesthesia | CO 1, PO1, 7, PO8, PO9 |
| (i) Anaesthetic concerns | |
| (ii) Monitoring requirements | |
| (iii) Role of OT technologist | |
| c. Hospital Information System (HIS) | CO 3, PO2, 7, PO9 |
| (i) Definition and components | |
| (ii) Applications in billing, registration, reporting | |
| (iii) Ethical challenges | |
| d. Equipment Operations Management | CO2, PO9 |
| (i) Types of maintenance (preventive, corrective) | |
| (ii) Job orders and logbooks | |
| (iii) Importance of AMCs (Annual Maintenance Contracts) | |

Q. 4. Long Answer/ Essay type questions (Attempt any Two)

(02 x 15 = 30)

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|---|------------------------|
| a. Discuss in detail the anaesthetic requirements and OT preparation in cardiothoracic surgeries. | CO 1, PO1, 7, PO8, PO9 |
| b. Explain role of anaesthesia technician in neurological surgeries with emphasis on positioning, monitoring, and intraoperative complications. | CO 1, PO1, 7, PO8, PO9 |
| c. Describe the ethical considerations in anaesthesia practice with reference to consent, confidentiality, end-of-life issues, and research trials. | CO 3, PO2, 7, PO9 |