

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

SPECIALIZED SURGERY
(PLASTIC, PEDIATRIC, CARDIO THORACIC AND VASCULAR SURGERIES)

[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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| <p>a. In neurosurgery, which instrument is commonly used to hold the dura mater? CO602.3 PO1-9</p> <p>i. Allis forceps
 ii. Adson forceps
 iii. Dandy forceps
 iv. Babcock forceps</p> <p>b. In cardiac surgery, cardiopulmonary bypass is established using cannulation of: CO602.4 PO1-9</p> <p>i. Aorta and superior vena cava
 ii. Aorta and right atrium
 iii. Pulmonary artery and right atrium
 iv. Inferior vena cava and pulmonary vein</p> <p>c. Which of the following is a specialized urological surgery? CO602.5 PO1-9</p> <p>i. T.U.R.P.
 ii. Colectomy
 iii. Splenectomy
 iv. Hysterectomy</p> <p>d. Which of the following is a self-retaining retractor used in abdominal surgery? CO602.2 PO1-9</p> <p>i. Balfour retractor
 ii. Langenbeck retractor
 iii. Deaver retractor
 iv. Czerny retractor</p> <p>e. In laparoscopic surgery, the first trocar is usually inserted at which site? CO602.2 PO1-9</p> <p>i. Right iliac fossa
 ii. Umbilicus
 iii. Left hypochondrium
 iv. Epigastrium</p> | <p>f. Which laser is commonly used in urosurgery? CO602.5 PO1-9</p> <p>i. CO₂ laser
 ii. Argon laser
 iii. Nd:YAG laser
 iv. Holmium laser</p> <p>g. What is a skin graft taken from another part of the same patient's body called: CO602.1 PO1-9</p> <p>i. Allograft
 ii. Xenograft
 iii. Autograft
 iv. Synthetic graft</p> <p>h. Which instrument is used in thoracic surgery to approximate ribs? CO602.4 PO1-9</p> <p>i. Finochietto retractor
 ii. Rib approximator
 iii. Allis forceps
 iv. Lane's forceps</p> <p>i. In transplant surgery, the solution commonly used for organ preservation is: CO602.5 PO1-9</p> <p>i. Ringer's lactate
 ii. Normal saline
 iii. University of Wisconsin solution
 iv. Dextrose 5%</p> <p>j. During craniotomy, the instrument used to make burr holes in the skull is: CO602.3 PO1-9</p> <p>i. Gigli saw
 ii. Hudson brace and burr
 iii. Bone nibbler
 iv. Kerrison punch</p> |
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Q. 2. Short notes/ Short answer type questions (Attempt any Five)**(05 x 04 = 20)**

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| a. Split skin grafting | CO 602.1 PO1-9 |
| b. Microsurgery | CO 602.1 PO1-9 |
| c. Cystoscopy | CO 602.5 PO1-9 |
| d. Lithotomy position | CO 602.5 PO1-9 |
| e. Bipolar cautery | CO 602.5 PO1-9 |
| f. Air embolism | CO 602.3 PO1-9 |
| g. Drains in surgery | CO 602.5 PO1-9 |

Q. 3. Structured questions (Attempt any Three)**(03 x 10 = 30)**

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| a. Craniotomy indications and Procedure | CO 602.3 PO1-9 |
| b. Special precautions in pediatric surgical procedures | CO 602.2 PO1-9 |
| c. PCNL indication, procedure and complications | CO 602.5 PO1-9 |
| d. Role of OT technician doing vascular surgery | CO 602.4 PO1-9 |

Q. 4. Long Answer/ Essay type questions (Attempt any Two)**(02 x 15 = 30)**

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| a. Describe per operating care during Cardio thoracic surgery. Add a note on Cardio thoracic surgery instruments | CO 602.4 PO1-9 |
| b. Instrument trolley preparation in cleft lip /cleft palate surgery | CO 602.2 PO1-9 |
| c. What is skin grafting? Explain the types of skin grafts | CO 602.1 PO1-9 |