

B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATER) (BOT)
SEMESTER -II EXAMINATION, JUNE-2026

(BOT205) INTRODUCTION TO QUALITY, PATIENT SAFETY & PATIENT CARE-II

[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. Monitoring required before shifting from OT to post-op ward:</p> <ol style="list-style-type: none"> Pulse oximeter Blood pressure Respiratory pattern All of the above <p>b. Colour of nitrous oxide cylinder is:</p> <ol style="list-style-type: none"> French blue Black Black with white soldiers Orange <p>c. Colour of 20g IV canula:</p> <ol style="list-style-type: none"> Pink Blue Yellow Grey <p>d. The compression to ventilation ratio in single person rescue is:</p> <ol style="list-style-type: none"> 5:1 30:2 15:2 15:1 | <p>e. Spinal anesthesia is most commonly given at which level:</p> <ol style="list-style-type: none"> L2-L3 L3-L4 L1-L2 T12-L1 <p>f. Pin index of nitrous oxide is:</p> <ol style="list-style-type: none"> 2,5 3,5 1,5 2,6 <p>g. Shortest acting IV opioid analgesic:</p> <ol style="list-style-type: none"> Morphine Fentanyl Remifentanyl Pethidine <p>h. The Low-pressure circuit includes components:</p> <ol style="list-style-type: none"> Flowmeters check valves (if present) common gas outlet All of the above <p>i. You have noticed a potential victim and ensured the scene is safe. What is your next step?</p> <ol style="list-style-type: none"> Begin chest compression Check for victim's responsiveness Call the victim's doctor Provide rescue breathing |
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- j. Give one indication and one disadvantage of: North Pole, Oxford Tube

Q. 2. Short notes/ Short answer type questions (Attempt any Five)**(05 x 04 = 20)**

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| a. What are the safety feature in Boyle's machine | (CO4) |
| b. Name two crystalloids and colloids | (CO5) |
| c. Name two surgeries done in lithotomy position and the effect on respiratory system | (CO1) |
| d. What are the parts of the cylinder | (CO4) |
| e. Name two advantages and disadvantages of sitting and lateral position for spinal anesthesia | (CO1) |
| f. What is tug test? | (CO4) |
| g. Give composition of soda lime | (CO5) |

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

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| a. Flowmeters | (CO4) |
| b. How to perform an endotracheal suction? | (CO2) |
| c. What are the physiological changes, indications, advantages, and disadvantages of Trendelenburg position, and left lateral decubitus position | (CO1) |
| d. How will you prepare the OT for a pediatric patient posted for herniotomy? | (CO2,1) |

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

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| a. Discuss the transfer of a pregnant patient from ward to Operating room | (CO1) |
| b. Give the steps of basic life support | (CO3) |
| c. How will you prepare the operation theatre of spinal anesthesia | (CO2) |