

# Question Paper

Exam Date & Time: 25-Jun-2024 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER M.Sc. ANAESTHESIA AND OPERATION THEATRE TECHNOLOGY DEGREE EXAMINATION - JUNE  
2024

SUBJECT: AOT6201 - SUBSPECIALITY ANAESTHESIA TECHNIQUES  
(2022 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Plan the procedure for a 50-year-old man with brain stem tumour. Discuss the operation theatre preparation, anaesthesia technique, and various equipment used for intraoperative patient monitoring. What are the two different positions in which this surgery can be done? What are the anaesthetic considerations of both positions? (20)
- 2) What is coronary artery bypass grafting? Elaborate on how you will prepare for it, including preoperative assessments, setting up the operation theatre, anaesthesia techniques, intraoperative monitors and postoperative analgesia? (20)
- 3A) Compare and contrast spinal and epidural anaesthesia. (10)
- 3B) Elaborate on the various methods used to secure airway in a 35-year-old man with malignancy of oral cavity with restricted mouth opening is posted for surgery. (10)
- 3C) Explain in detail about the technique of brachial plexus block. (10)
- 3D) What is patient-controlled analgesia? How does it differ from traditional methods of pain management? List its advantages and disadvantages compared to nurse administered. (10)
- 4A) Explain bone cement implantation syndrome? Add a note on its grading and its clinical features. (5)
- 4B) Outline the postoperative complications of thyroidectomy. Add a note on res Ipsa loquitur. (5)
- 4C) Elaborate Sub-mental intubation - Indication, advantages, and technique. (5)
- 4D) Explain oculocardiac reflex pathway. (5)

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Exam Date & Time: 27-Jun-2024 (10:00 AM - 12:00 PM)



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FOURTH SEMESTER M.Sc. ANAESTHESIA AND OPERATION THEATRE TECHNOLOGY DEGREE EXAMINATION - JUNE  
2024

SUBJECT: AOT6221 - ANAESTHESIA AND CRITICAL CARE  
(2022 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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| 1)  | Plan the different approaches for central venous cannulation. Construct a triple lumen central venous catheter and elaborate on the preparation and procedure of femoral vein catheterization. Add a note on its complications. | (20) |
| 2A) | Plan and prepare the nasotracheal intubation tray. Elaborate on intracranial pressure measurement.  | (10) |
| 2B) | What is VAP bundle? List the basic ventilator parameters and formulate a plan for weaning a patient from the ventilator.  | (10) |
| 3A) | Explain the management of Congestive atelectasis.   | (5)  |
| 3B) | Summarize on the diagnosis and management of hypokalemia.   | (5)  |

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