

Question Paper

Exam Date & Time: 18-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

SUBJECT: AOT5201- OPERATION THEATRE MANAGEMENT
(2022 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Define sterilization, disinfection & septicemia. Classify and explain the methods of sterilization used in perioperative area. Outline the central corridor scheme for the operation theatre layout. (20)
- 2) Classify and explain environmental hazards and add a note on its safeguards. (20)
- 3A) What is needle stick injury. Summarize the methods to prevent needle stick injury. (10)
- 3B) Define and explain universal precaution in detail. (10)
- 3C) Elaborate on the steps of care bundle for VAP and CRBSI. (10)
- 3D) Define and organize the categories of biomedical waste systematically, outlining treatment procedures and summarize on disposal of biomedical waste. (10)
- 4A) Define hospital acquired infection. Explain the three modes of transmission of infection inside OT. (5)
- 4B) Classify surgical instruments. Construct and add a note on lane's tissue forceps. (5)
- 4C) List and summarize the components of appropriate OT attire. (5)
- 4D) Outline the infection process and add a note on modes of transmission infection inside the OT. (5)

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Question Paper

Exam Date & Time: 20-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

SUBJECT: AOT5221- ADVANCED ANAESTHESIA TECHNIQUES
(2022 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Identify the indications, contraindications, techniques, equipment and complications of arterial cannulation. | (20) |
| 2) | Construct an NCEPOD classification. Explain in detail about the provision of emergency anaesthesia. | (20) |
| 3A) | Explain in detail the three long-term effects of general anaesthesia. | (10) |
| 3B) | Compare and contrast spinal and epidural anaesthesia. | (10) |
| 3C) | Explain in detail about the technique of pulmonary artery wedge pressure monitoring. | (10) |
| 3D) | How do you diagnose and manage intraoperative bronchospasm? | (10) |
| 4A) | What is monitored anaesthesia care? Enumerate its indication. | (5) |
| 4B) | What Is PACU? Explain the phases in PACU. | (5) |
| 4C) | How do you detect fluid overload with ultrasonography? | (5) |
| 4D) | List out the five components of a flexible fiberoptic bronchoscope. | (5) |

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Question Paper

Exam Date & Time: 22-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

SUBJECT: AOT5222 - APPLIED SURGICAL TECHNOLOGY
(2022 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Define wound debridement. Explain about four types of wound debridement techniques. | (20) |
| 2) | Identify the importance of pre-surgical preparation for a patient. Explain about the infection control guidelines. | (20) |
| 3A) | Explain the steps of developing a surgical diagnosis. | (10) |
| 3B) | Outline the advantages and disadvantages of electrocautery. | (10) |
| 3C) | Define abscess. Explain the management of abscess. | (10) |
| 3D) | List out the American Society of Anaesthesiologists physical status classification system. | (10) |
| 4A) | What is the working principle of a surgical biomicroscope and mention its components. | (5) |
| 4B) | Classify the suture materials. Explain the principles and armamentarium while suturing. | (5) |
| 4C) | Define anastomosis. Explain briefly about bowel anastomosis. | (5) |
| 4D) | Classify the surgical wounds and explain factors affecting wound healing. | (5) |

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