

Question Paper

Exam Date & Time: 23-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. ANAESTHESIA & OPERATION THEATRE TECHNOLOGY DEGREE EXAMINATION - MAY/JUNE
2024

SUBJECT: AOT3202 - ELECTRONICS AND TECHNOLOGY IN SURGERY AND ANAESTHESIA
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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|-----|---|------|
| 1) | Explain the classification of suture materials | (20) |
| 2) | Explain the types and principles electro surgical techniques | (20) |
| 3) | Define operating lights. Explain the types and features of operating lights | (10) |
| 4) | Define defibrillation and write the principles of same | (10) |
| 5A) | Explain in detail about the healing process of wound | (5) |
| 5B) | List indications of temporary pacing | (5) |
| 5C) | List the duties of healthcare providers in post Anaesthesia care unit | (5) |
| 5D) | How to put a drain tube? Explain the steps in detail | (5) |
| 5E) | Explain the principles of patient skin preparation | (5) |
| 5F) | Explain about chlorohexidine gluconate | (5) |
| 6A) | Define grounding | (2) |
| 6B) | List the name of any two-draping equipment | (2) |
| 6C) | Explain any two features of an operating light | (2) |
| 6D) | Define Blood Bank | (2) |
| 6E) | Explain about lithotomy position | (2) |

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Question Paper

Exam Date & Time: 25-May-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. ANAESTHESIA & OPERATION THEATRE TECHNOLOGY DEGREE EXAMINATION - MAY/JUNE
2024

SUBJECT: AOT3241 - PROGRAM ELECTIVE - II : CASUALTY AND AMBULANCE SERVICES
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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| 1) | Explain the etiology, risk factors, pathophysiology, and management of Myocardial Infarction. | (10) |
| 2) | Explain in detail:
i) How does envenomation occur?
ii) What are the local & systemic presentation of snake bite?
iii) First-aid response & management of snake bite. | (10) |
| 3A) | Illustrate the ECG changes and management in hypermagnesemia. | (5) |
| 3B) | Explain the pathophysiology and management in diabetic ketoacidosis. | (5) |
| 3C) | Illustrate the initial ventilator setting and criteria for weaning from ventilator. | (5) |
| 3D) | Explain the technique of Ryle's tube insertion. | (5) |
| 4A) | What is an antivenom? | (2) |
| 4B) | List four examples of resources according to the ESI triage system. | (2) |
| 4C) | List the different types of USG probes and its uses. | (2) |
| 4D) | Mention the ECG changes in hypercalcemia. | (2) |
| 4E) | Compare Elapidae and Viperidae. | (2) |

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Question Paper

Exam Date & Time: 25-May-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. ANAESTHESIA & OPERATION THEATRE TECHNOLOGY DEGREE EXAMINATION - MAY/JUNE
2024

SUBJECT: AOT3242 - PROGRAM ELECTIVE - II : TRAUMA MANAGEMENT
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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| 1) | Explain how to transfer a patient in trauma safely. | (10) |
| 2) | Define intubation. Explain the need and the process. | (10) |
| 3A) | List & explain the steps followed to stabilize a fracture. | (5) |
| 3B) | Outline Autologous Blood Transfusion. | (5) |
| 3C) | Explain about Laryngeal Mask Airway. | (5) |
| 3D) | Summarize the levels of Triage. | (5) |
| 4A) | What are the types of hospital transfers? | (2) |
| 4B) | Distinguish open fracture from closed fracture. | (2) |
| 4C) | List any four indications for blood transfusion. | (2) |
| 4D) | How to assess circulation in a trauma patient? | (2) |
| 4E) | Compare blunt injury & penetrating injury. | (2) |

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