

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0122]**

**JANUARY 2022**

**Sub. Code: 1238**

**(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)**

**B.Sc. CRITICAL CARE TECHNOLOGY**

**THIRD YEAR (Regulations from 2014-2015, 2015-2016 & 2018-2019)**

**PAPER III – ICU ADMINISTRATION + LOGISTICS + STATISTICS +**

**MEDICAL ETHICS**

***Q.P. Code: 801238***

**Time: Three Hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define Euthanasia and its types. Explain the difference between Active & Passive Euthanasia.
2. Explain about patient safety and principles for Inter hospital patient transport.
3. Define Data and its types with examples.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Professional secrecy.
2. Maintaining Consumable Stock.
3. Records and Documents related to Medico - legal case.
4. Personal Protective Equipment.
5. Right to patient.
6. Ethical issues in Transplantation.
7. Importance of Hand washing with Alcohol.
8. Informed consent Vs Informed Refusal.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Wrapping & Packing.
2. Equipment repair in ICU.
3. Needle stick injury.
4. Corporate Negligence.
5. Res Judicata.
6. Rational drug Therapy.
7. Covering.
8. Validity.
9. Mean Vs Median.
10. Chemical Sterilization.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0922]**

**SEPTEMBER 2022**

**Sub. Code: 1238**

**(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)**

**B.Sc. CRITICAL CARE TECHNOLOGY  
THIRD YEAR (Regulations from 2014-2015, 2015-2016 & 2018-2019)  
PAPER III – ICU ADMINISTRATION + LOGISTICS + STATISTICS +  
MEDICAL ETHICS  
Q.P. Code: 801238**

**Time: Three Hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on: (3 x 10 = 30)**

1. Describe the principles of communication and counseling in ICU.
2. Biomedical Waste Management and its disposal.
3. Explain about patient safety and principles for Intra hospital patient transport.

**II. Write notes on: (8 x 5 = 40)**

1. Organ Transplantation.
2. Electrical safety in ICU.
3. Equipment maintenance in ICU.
4. Confidentiality.
5. Difference between Disinfectant and Antiseptic.
6. Consent.
7. What are all the safety measures should be followed for COVID positive patient on Ventilator?
8. What is fire drill and why it is needed?

**III. Short answers on: (10 x 3 = 30)**

1. Self protection for handling the COVID positive patient in casualty.
2. Types of medico legal cases.
3. Physical Sterilization.
4. Steps to prevent medico legal complaints in ICU.
5. List the drugs used to care for pain in terminally ill in ICU.
6. Res Ipsa Loquitur.
7. Unauthorized Disclosure.
8. Central Tendency.
9. EO gas sterilization.
10. List the steps to take care of staff with needle stick injury.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0423]**

**APRIL 2023**

**Sub. Code: 1238**

**B.Sc. CRITICAL CARE TECHNOLOGY  
THIRD YEAR (Regulations 2014-2015, 2015-2016 & 2018-2019 onwards)  
PAPER III – ICU ADMINISTRATION + LOGISTICS + STATISTICS +  
MEDICAL ETHICS  
Q.P. Code: 801238**

**Time: Three Hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on: (3 x 10 = 30)**

1. Define Negligence. Describe its Types.
2. Define Medico - Legal Case and write a note on records and documents related to Medico Legal Cases.
3. Write a note on the care of a Terminally ill patient.

**II. Write notes on: (8 x 5 = 40)**

1. Vicarious Liability.
2. Fire safety in ICU.
3. Procedure for transporting a patient from ICU to CT scan.
4. Disinfectant procedure for the patient diagnosed as COVID positive.
5. Transplantation of Human Organs Act.
6. Withdrawal of life support.
7. Legal aspects of Nosocomial infection.
8. Professional misconduct.

**III. Short answers on: (10 x 3 = 30)**

1. Scales of measurement in Statistics.
2. Note on Moist Heat Sterilization.
3. Reliability in Statistics.
4. Importance of Employee Motivation.
5. Ownership of Medical record.
6. List out the methods of Oxygen administration.
7. Importance of management in ICU.
8. Different kinds of medical gases used in ICU.
9. Warning notice.
10. Proxy consent.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0424]**

**APRIL 2024**

**Sub. Code: 1238**

**B.Sc. CRITICAL CARE TECHNOLOGY**  
**THIRD YEAR (Regulations 2014-2015, 2015-2016 & 2018-2019 onwards)**  
**PAPER III – ICU ADMINISTRATION + LOGISTICS + STATISTICS +**  
**MEDICAL ETHICS**  
***Q.P. Code: 801238***

**Time: Three Hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:** **(3 x 10 = 30)**

1. What is Sterilization? Classify the different methods. Describe one method.
2. Discuss steps needed in safe intra-hospital transport of a patient with ARDS on a ventilator and on inotropes in your ICU who needs a CT scan of the chest at the Radiology Department in your hospital.
3. How will you help the ICU, if there is an outbreak of fire in your department?

**II. Write notes on:** **(8 x 5 = 40)**

1. Withdrawal of life support.
2. Nurse to Patient ratio and the role of critical care technicians.
3. Importance of documentation in medical records.
4. Mean and standard deviation.
5. Steps in dealing with an angry patient relative.
6. Why is organ transplant important? What is the role of ICU team in organ transplantation?
7. Define disinfection with one example.
8. Describe the role of team leader in Cardiac arrest situation.

**III. Short answers on:** **(10 x 3 = 30)**

1. List five most expensive equipment in your ICU.
2. Define Median.
3. List the equipments needed for central line placement.
4. Difference between informed consent and written consent.
5. List problems due to poor documentation in medical records.
6. List ways in which you can communicate with patients on a ventilator?
7. List steps for infection control in your ICU.
8. List steps to reduce conflict between Critical Care Technicians and Doctors in ICU.
9. What is meant by patient confidentiality?
10. List steps to improve electrical safety in your ICU.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0125]**

**JANUARY 2025**

**Sub. Code: 1238**

**B.Sc. CRITICAL CARE TECHNOLOGY**  
**THIRD YEAR (Regulations 2014-2015, 2015-2016 & 2018-2019 onwards)**  
**PAPER III – ICU ADMINISTRATION + LOGISTICS + STATISTICS +**  
**MEDICAL ETHICS**  
***Q.P. Code: 801238***

**Time: Three Hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:** **(3 x 10 = 30)**

1. Care of the Terminally ill patient. Types of Disclosure, Relief of Pain and Advance Directive.
2. Discuss the practical steps to reduce the costs in Intensive care in your unit.
3. Define Negligence. List the types of Negligence. Write in detail on Contributory Negligence.

**II. Write notes on:** **(8 x 5 = 40)**

1. Define Euthanasia. Explain the different types of Euthanasia.
2. What is the importance of Hand washing with Alcohol?
3. Autonomy and Informed consent.
4. Equipment maintenance in ICU.
5. Principles of communication and counselling.
6. Difference between Reliability and Accuracy in measurements.
7. Inter-hospital transport methods, advantages and disadvantages.
8. Biomedical Waste Disposal Management in ICU.

**III. Short answers on:** **(10 x 3 = 30)**

1. Wrapping and Packing.
2. List the steps to ensure fire safety in ICU.
3. Scales of measurements in statistics.
4. Define Validity, Reliability and Variation.
5. Organ Transplantation.
6. List the types of Medico Legal case.
7. What is CSSD? And its functions.
8. Two chemical agents used for Sterilization of equipment.
9. Expand DNR and AMA.
10. Maintaining consumable stock.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0425]**

**APRIL 2025**

**Sub. Code: 1238**

**B.Sc. CRITICAL CARE TECHNOLOGY**  
**THIRD YEAR (Regulations 2014-2015, 2015-2016 & 2018-2019 onwards)**  
**PAPER III – ICU ADMINISTRATION + LOGISTICS + STATISTICS +**  
**MEDICAL ETHICS**  
***Q.P. Code: 801238***

**Time: Three Hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:** **(3 x 10 = 30)**

1. Define Medico Legal Case. Name the different types of Medico Legal Cases. Add a note on Records and Documents related to Medico Legal Cases.
2. Explain types of Sterilization in detail with examples.
3. Describe Intra and inter hospital patient transport in detail.

**II. Write notes on:** **(8 x 5 = 40)**

1. Confidentiality.
2. Maintenance of Consumable stock.
3. Ethics in care of terminally ill.
4. What is meant by normal distribution? Draw a bell-shaped curve.
5. Basic concepts of scales of measurements in Statistics.
6. Electrical safety in ICU.
7. Functions and types of management.
8. Biomedical Waste disposal management in ICU.

**III. Short answers on:** **(10 x 3 = 30)**

1. Enlist any three economic issues in ICU.
2. List the steps to reduce patients hospital bill.
3. Write the methods of disinfecting any three reusable equipments in ICU.
4. List the steps to reduce conflict between Critical Care Technicians and Nurses in ICU.
5. Enlist measures to prevent needle stick injury.
6. Define dispersion range and variance.
7. Specify the application of Ethylene Oxide sterilization.
8. List any three principles of Communication.
9. Differentiate short and long term financial management.
10. Enlist any three types and uses of wrapping and packing materials in ICU.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 1125]**

**NOVEMBER 2025**

**Sub. Code: 1238**

**B.Sc. CRITICAL CARE TECHNOLOGY**  
**THIRD YEAR (Regulations 2014-2015, 2015-2016 & 2018-2019 onwards)**  
**PAPER III – ICU ADMINISTRATION + LOGISTICS + STATISTICS +**  
**MEDICAL ETHICS**  
***Q.P. Code: 801238***

**Time: Three Hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:** **(3 x 10 = 30)**

1. Describe various aspects of code of conduct in Medical ethics.
2. Describe all the aspects of patient safety and patient transport.
3. Describe the principles of Communication and Counseling.

**II. Write notes on:** **(8 x 5 = 40)**

1. Principles of Basic ICU Administration.
2. Economic issues in ICU.
3. Organ transplantation.
4. Basic principles of Management.
5. Confidentiality.
6. Ownership of Medical Records.
7. Moist Heat Sterilization.
8. Wrapping and Packing.

**III. Short answers on:** **(10 x 3 = 30)**

1. Waste disposal collection of used items from user area.
2. Chemical sterilization.
3. Define – Mean, Mode, Median.
4. Principle of Long-term Financial Management.
5. Steps for raising a purchase in ICU.
6. Scales of Measurements in Statistics.
7. What is Central Sterile Supply Department (CSSD) and its functions?
8. Disinfection Safe Guards.
9. H<sub>2</sub>O<sub>2</sub> Gas Plasma Vapour Sterilization.
10. Retention of Medical Records.

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