

**B.Sc. CRITICAL CARE TECHNOLOGY**  
(New Syllabus 2014-2015)

**THIRD YEAR**

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

*Q.P. Code: 801238*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Discuss the Basic Principles of Medical Ethics and the Foundation of Medical Ethics.
2. Define Euthanasia. What are the different Types of Euthanasia? Explain the Difference between Active and Passive Euthanasia.
3. Define Negligence. List the types of Negligence. Write in detail on Contributory Negligence.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Informed Consent and waiver of informed consent.
2. Responsibilities of the Physician to each other according to the Medical Council of India.
3. Mean vs Mode
4. Rational and Irrational Drug Therapy.
5. Normal Distribution.
6. Ethical Issues in Transplantation.
7. How will you transport a patient from the ICU to the CT scan room?
8. Modes of Inter-hospital transport: advantages and disadvantages.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Dichotomy.
2. Privileged Communication.
3. Define Vicarious Liability.
4. Informed Refusal.
5. Patient Autonomy.
6. Fee Sharing.
7. Res ipsa loquitur.
8. Corporate Negligence.
9. Oral Consent.
10. Ethylene dioxide.

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**B.Sc. CRITICAL CARE TECHNOLOGY**  
(New Syllabus 2014-2015 & 2015-2016)

**THIRD YEAR**

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

*Q.P. Code: 801238*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define Medico Legal Case. Name the different Types of Medico Legal Cases. Write notes on the Records and Documents related to Medico Legal Cases.
2. Discuss about the ownership of Medical Records and the content of the Medical record?
3. Define Data and give types of Data with examples?

**II. Write notes on:**

**(8 x 5 = 40)**

1. Define Euthanasia. Explain the different Types of Euthanasia.
2. Explain the different Types of Malpractice.
3. Measures of central tendency.
4. Validity vs reliability.
5. Informed Consent and Informed Refusal.
6. Explain Patient Autonomy and Paternalism.
7. Discuss the need for ethics in medical practice.
8. Vicarious Liability.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Res ipsa loquitur.
2. Proxy Consent.
3. Unauthorized Disclosure.
4. Advance Directive.
5. List equipment for transport a patient from the ICU to the CT scan room?
6. Contributory Negligence.
7. Confidentiality.
8. Therapeutic Privilege. List the exemptions.
9. Scope of Medical Ethics.
10. Covering.

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*Q.P. Code: 801238*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define Medical Ethics. Explain the Goals and Scope of Medical Ethics.
2. What are strategic steps you can use to reduce costs for ICU patients?
3. Write notes on the Care of the Terminally ill discussing Types of Disclosure, Relief of Pain and Advance Directive.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What is the difference between sterilization and disinfection?
2. Ethylene oxide.
3. Moist heat sterilization.
4. Autonomy, Informed Consent and Informed Refusal.
5. Medico Legal Aspects of Medical Records.
6. Responsibility of Physicians to Patients according to the Medical Council of India.
7. Transplantation of Human Organs Act.
8. Confidentiality of Medical Records and Privileged Communication.

**III. Short answers on:**

**(10 x 3 = 30)**

1. What is meant by Medical Negligence?
2. Define Malpractice.
3. Res judicata.
4. Implied consent.
5. Physician assisted suicide.
6. List the types of Medico legal case.
7. Confidentiality.
8. Paternalism.
9. Validity.
10. Mean vs Median.

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**THIRD YEAR**

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

*Q.P. Code: 801238*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

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

1. Write a essay on Basic concepts of descriptive statistics and a note on Central tendency, Mean, Median, Mode.
2. Definition of Medical ethics and its goal and scope in medical practice. Write note on Confidentiality.
3. Write in detail about the CSSD procedure in Intensive Care Unit and collection and disposal of waste items.

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

1. What is the importance of Hand washing with Alcohol?
2. EO gas sterilization.
3. Describe economic issues in ICU.
4. Importance of medico-legal aspects of Medical Records.
5. Short notes on Electrical safety in ICU.
6. Elaborate on Personnel management principles.
7. Note on Variance and Standard Deviation.
8. Inter – Hospital patient transport.

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

1. Short note on Withdrawal of medical treatment of terminally ill patient.
2. Note on Dry Heat Sterilization.
3. Equipment Repair in ICU.
4. Organ Transplantation.
5. Chemical sterilization.
6. Write a short note on reusable equipments in ICU.
7. Scales of measurements in statistics.
8. Principle of long-term financial management.
9. Note on Communication.
10. Code of Conduct.

[LP 0819]

AUGUST 2019

Sub. Code: 1238

**B.Sc. CRITICAL CARE TECHNOLOGY**  
(New Syllabus 2014-2015 & 2015-2016)

**THIRD YEAR**

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

*Q.P. Code: 801238*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe all the aspects of Patient safety and write in detail about Intra - hospital patient transport.
2. Essay on Principles of Communication and Counseling in ICU.
3. Biomedical waste Disposal management in ICU.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Basic concepts of scales of measurement in Statistics.
2. Note on fire safety in ICU.
3. H<sub>2</sub>O<sub>2</sub> Gas plasma vap. Sterilization.
4. Equipment maintenance in ICU.
5. Write a short note on short term financial management.
6. Describe Five Rights of patients.
7. Disinfection safe guards.
8. Short notes on maintaining consumable stock.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Euthanasia.
2. Note on Moist heat sterilization.
3. Waste disposal in ICU.
4. Wrapping and packing equipments in ICU.
5. Note on Standard deviation.
6. Importance of employee motivation.
7. Define Validity, Reliability and Variation.
8. Short notes on Code of Conduct.
9. Functions of personnel management.
10. What is CSSD? And its functions.

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**B.Sc. CRITICAL CARE TECHNOLOGY**  
(New Syllabus 2014-2015 & 2015-2016)

**THIRD YEAR**

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

*Q.P. Code: 801238*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Discuss the general principle of sterilization and elaborate on each methods of sterilization followed in intensive care unit.
2. Write a detailed essay on patient safety and principles for inter – hospital patient transport.
3. Describe the principles of personnel management and elaborate the importance of staffing and orientation.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Common disinfectants used in ICU and its uses?
2. Definitions of central tendency, Mean, Median, Mode.
3. Ownership of medical records.
4. Describe Autonomy and Informed consent.
5. Biomedical waste disposal management in ICU.
6. Basic principles of communication.
7. Withdrawal of life support.
8. Note on confidentiality.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Code of conduct.
2. List steps to take care of staff with needle stick injury.
3. List steps to prevent falls in patients admitted to ICU.
4. Scales of measurements in statistics.
5. List steps to prevent medico legal complaints in ICU.
6. Equipment Repair in ICU.
7. What are the functions of management?
8. Short note on organ transplantation.
9. Define dispersion range and variance.
10. Write a note on counseling in ICU.

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

**[LR 1220]**

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 1238**

**BACHELOR IN CRITICAL CARE TECHNOLOGY  
THIRD YEAR**

**(New Syllabus 2014-2015 & 2015-16)**

**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 data? Classify types of data with examples. Why is it important to store data and perform research in the ICU?
2. Differentiate between sterilization and disinfection. Discuss the types of sterilization performed in your hospital.
3. Discuss practical steps to reduce costs in Intensive care in your unit.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Withdrawal of life support vs withholding life support.
2. What is meant by organ transplantation? What are the common organs that are transplanted?
3. What are the medico legal aspects of medical records?
4. What is meant by normal distribution? Draw a bell shaped curve.
5. Inter-hospital transport methods, advantages and disadvantages.
6. Difference between reliability and accuracy in measurements.
7. What is informed consent?
8. What is meant by patient autonomy?

**III. Short answers on:**

**(10 x 3 = 30)**

1. List steps to ensure electrical safety in ICU.
2. List steps to ensure fire safety in ICU.
3. Define Mean.
4. Difference between Mode and Median.
5. Comfort Care measures in ICU.
6. Steps for raising a purchase in ICU.
7. List common Medico-legal cases admitted to ICU.
8. List steps to reduce conflict between Critical Care Technicians and nurses in ICU.
9. Ethylene Oxide sterilization.
10. Importance of communication in ICU.

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**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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