

[LH 0815]

AUGUST 2015

Sub.code: 1007

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code : 801007

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about pre hospital transport of patient and equipments needed.
2. Write in detail about cardiac cycle.
3. Algorithm of ACLS.

II. Write Notes on:

(8 x 5 = 40)

1. Kreb's cycle.
2. Pulmonary segments.
3. Urinary catheterization.
4. Write about femur with diagram.
5. C-Spine immobilization in trauma.
6. Oxygen therapy – types of masks with flow rate.
7. Triage.
8. Anti snake venom.

III. Short answers on:

(10 x 3 = 30)

1. Name 3 arteries that supply to kidney.
2. 3 indications of ICD.
3. Procedure of needle thoracocentesis.
4. Anti-snake venom and its dosage.
5. 3 drugs used in Anaphylaxis.
6. Mention 3 types of shock.
7. Contents of anatomical snuff box.
8. Normal values of pH, HCO₃, Co₂.
9. Mention any three IV cannules with color and size.
10. Define Medico legal case. Mention any 3 MLC.

[LI 0216]

FEBRUARY 2016

Sub.code: 1007

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code : 801007

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail ACLS algorithm and reversible causes.
2. Detail description of physical examination.
3. Anatomy of humerus bone and brachial plexus.

II. Write Notes on:

(8 x 5 = 40)

1. Anatomy of bony pelvis.
2. Glycolysis.
3. Volumes and capacities of lung.
4. Oral airway with color coding.
5. Coronary system.
6. Describe LMA and procedure of insertion.
7. Five IV cannulas with flow rate.
8. C-Spine immobilization.

III. Short answers on:

(10 x 3 = 30)

1. Define osmolarity and osmolality.
2. Contents of carotid triangle.
3. Normal values of pH, HCO₃, Co₂.
4. 3 causes of hypovolemic shock.
5. 6 steps of hand hygiene.
6. Mention 3 drugs used in asthma.
7. Name cranial nerves involved in eye.
8. Contents of femoral sheath.
9. Muscles of leg.
10. Activated charcoal dosage and its preparation in poisoning.

[LJ 0816]

AUGUST 2016

Sub.code: 1007

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code : 801007

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Define shock. What are the different types of shock and elaborate on any one?
2. Describe the components required for EMS system.
3. General management of poison patient.

II. Write Notes on:

(8 x 5 = 40)

1. Ryle's tube indications and contraindications.
2. Name some respiratory emergencies and write short notes on management of any one.
3. Wound management.
4. Bandaging.
5. Management of burns patient.
6. History taking and physical examination.
7. Roles and responsibilities of paramedics.
8. Principles of life support.

III. Short answers on:

(10 x 3 = 30)

1. Personal protective equipments.
2. BLS algorithm.
3. Manoeuvre involved in foreign body obstruction.
4. Consent.
5. Glasgow coma scale.
6. Assault.
7. Radiation hazards.
8. Air lifting.
9. Cervical collar indications.
10. What is CT?

[LK 0217]

FEBRUARY 2017

Sub.code: 1007

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code : 801007

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Principals of life support for unconscious patient.
2. Lifting and transporting injured patient.
3. Define triage and elaborate on colour coded triage system.

II. Write Notes on:

(8 x 5 = 40)

1. Personal protective equipment.
2. Oropharyngeal airway indications and contraindications.
3. Functions of ambulance control.
4. Primary roles and responsibilities of paramedic.
5. Ryle's tube insertion.
6. "Do not resuscitate" (DNR) order.
7. Doorway to the hospital department.
8. Write short note on Non emergency patient.

III. Short answers on:

(10 x 3 = 30)

1. Glasgow coma scale.
2. Helmet removal technique.
3. Shockable and non shockable rhythm.
4. Medico legal cases.
5. Documentation.
6. Golden hour.
7. Log roll.
8. Ambu bag.
9. Multiparameter monitor.
10. Oxygen delivery devices.

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code : 801007

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. a) What is an ambulance? Write in brief history of ambulance.
b) What are the functions of an ambulance?
c) Describe the common vehicle type used for ambulance and which vehicle types is preferred for advance life support.
2. a) What is clinical examination?
b) Define and describe the following clinical examination skills with examples – Inspection, palpation, percussion, auscultation.
c) Draw and locate areas for palpating central and peripheral pulses.
3. a) What is upper airway?
b) What are the common manual maneuvers used to open the airway and describe two of them in detail?
c) What are the common methods to provide ventilation in cardio pulmonary resuscitation and describe bag mask ventilation technique?

II. Write Notes on:

(8 x 5 = 40)

1. Air ambulance and its functions.
2. What is privacy? Write 5 situations in emergency department in which you will ensure privacy.
3. What is log-roll? What precautions are needed before performing log-roll?
4. Mention 5 symptoms and signs of respiratory distress in an adult.
5. Electronic medical records.
6. Resuscitation team and explain the role of each member.
7. What is written of spontaneous circulation ROSC? How will you observe a patient with ROSC after resuscitation?
8. Explain the preparation and techniques of applying upper and lower limb plaster of Paris slab.

III. Short answers on:

(10 x 3 = 30)

1. What is stress response in relation to emergency technician health? Write 5 factors that trigger stress response.
2. What is emergency medical system (EMS)?
3. What are primary responsibility of emergency care technician (Mention at least 5).
4. Enumerate 5 symptoms and signs of a long bone fracture.
5. What is oxygen content of exhaled air? It is adequate for ventilation in an out of hospital cardiac arrest.
6. What are the two types of artificial external defibrillator pad placement in adult with diagram?
7. What is gastric inflation? What measures can you take to decrease it during resuscitation?
8. Mention 5 sizes of intra venous cannula with their color coding.
9. What are the symptoms and signs life threatening chest injury?
10. What is an arterial blood gas (ABG) analysis? Write 5 clinical indications to perform ABG.

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code : 801007

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. a) A 3 year old child arrested while waiting Emergency Department, you are only one, patient parents are around, describe the pediatric cardio pulmonary resuscitation algorithm in detail.
b) Difference between adult and infant single rescuer cardio pulmonary resuscitation.
2. a) What is emergency management system (EMS)?
b) Describe the current EMS system in India.
c) What are the components of EMS system and what is the role of Emergency Care Technician in EMS system?
3. a) What is inter facility transport?
b) What preparations you will take to ensure safe transport of a critically ill patient?
c) What are the types of communication you will use before during and after inter facility transport?

II. Write Notes on:

(8 x 5 = 40)

1. Jaw thrust maneuver - indication and contraindication and technique.
2. What is an automated external defibrillator (AED)? Explain its uses and mention few situation in which it is not used?
3. What is Blood pressure? What are methods used to measure Blood pressure?
4. Describe clinical examination of the abdomen.
5. What is written consent and give 5 common emergency procedures for which written consent is indicated?
6. What are the steps of infant single rescuer cardio pulmonary resuscitation?
7. What is restraint? What are the types of restraint used in emergency department?
8. Personal protective equipment.

III. Short answers on:

(10 x 3 = 30)

1. List 5 examples of role of emergency technician in India.
2. What is professionalism? Write any 4 professional qualities which you think is must for an emergency technician?
3. First Aid in thermal burns.
4. Chest inspection findings in a patient with acute breathlessness.
5. What is life threatening arrhythmia? Name two life threatening arrhythmia causing cardiac arrest.
6. What is assault? Write three differences between assault injury and accidental injury.
7. Mention 5 preparation you will take to ensure safe transport of a road traffic accident victim.
8. Head tilt and chin lift maneuver – indications and contraindication and technique.
9. Cervical spine immobilization.
10. Types of bandaging.

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code : 801007

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Define :
 - a) Triage.
 - b) Describe disaster triage in detail.
 - c) Categorize patient coming to your emergency department according to their sickness into three triage categories.
2. What are the objectives of the basic life support? Draw and explain the adult cardiac arrest algorithm.
3. An ambulance emergency technician reaches a site of Road Traffic Accident.
 - a) Mention the immediate measures he should take at the site.
 - b) What is scene safety and mention five methods used for scene safety.
 - c) What instrument are used to immobilize and transport a trauma victim and draw in detail any one of them?

II. Write Notes on:

(8 x 5 = 40)

1. List 5 medico legal issues encountered in emergency department. Mention the important information needed to report medico legal incident.
2. What are components of airway assessment?
3. Signs and symptoms of an injured joint.
4. Describe Heimlich in an adult.
5. What is verbal consent? Name 5 emergency department procedures for which verbal consent is indicated.
6. Describe the following wound in medical terminology. A 5x5x1 cm open wound with irregular margin in right side of chest below the collar bone adjacent to axilla from above downwards.
7. What is a chief complaint? Write 5 common chief complaints in patients presenting to emergency department.
8. What are vital signs? Write 4 vital signs with their normal values and mention terminology for the abnormal values.

III. Short answers on:

(10 x 3 = 30)

1. Mention different types of splints used in Emergency department.
2. What is medical negligence?
3. Draw and label the components of bag mask valve device.
4. What is field triage in a disaster?
5. Mention safety precautions when transporting an unconscious patient.
6. Medical insurance and its relevant to emergencies.
7. Heimlich maneuver on a 1 year old choking child.
8. Classification of wounds .
9. What are airway adjuncts? Mention any 3 of them.
10. What are differences between infant and child two rescuer cardio pulmonary resuscitation?

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code: 801007

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. a) What is upper airway?
b) What are the common manual maneuvers used to open the airway?
c) Describe the Bag mask ventilation technique.
2. Describe the components required for EMS system and explain the roles and responsibilities of EM care Technician.
3. a) Sequence of procedure for Emergency call - preparation and scene management.
b) Precautions during CPR.

II. Write Notes on:

(8 x 5 = 40)

1. Mention five signs and symptoms of respiratory distress in an adult.
2. Importance of necessity of patient confidentiality.
3. EMS at a National level.
4. Current trends of EMS.
5. Emergency provider level training and skills.
6. Sequence of spinal immobilization.
7. Techniques of Physical Assessment.
8. Personal Protective Equipment.

III. Short answers on:

(10 x 3 = 30)

1. What is Arterial Blood Gas (ABG) analysis? Write 5 clinical indications to perform ABG.
2. Log roll.
3. Assault.
4. Shock able and non shock able rhythm.
5. AMBU bag.
6. What is Emergency Medical System (EMS)?
7. Purposes of Physical assessment.
8. Functions of Hospital.
9. Types of bandaging.
10. ACLS algorithm.

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code: 801007

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. a) What is Clinical examination?
b) Define and describe the 4 methods of physical examination with examples?
c) Roles and Responsibilities of Emergency Care Technician.
2. Describe types and functions of hospital. What are inter department facilities available in the hospital?
3. a) What is inter facility transport?
b) Sequence of procedure for Emergency call- preparation and scene management.
c) Safety during transport to hospital.

II. Write Notes on:

(8 x 5 = 40)

1. Resuscitation team and explain the role of each member.
2. Doorway to the hospital department.
3. “Do Not Resuscitate” (DNR) order.
4. Signs and symptoms of injured joint.
5. Components of EMS system.
6. What is verbal consent? Mention in which situations the verbal consent is helpful?
7. Electronic Medical records.
8. Classification of Hospital.

III. Short answers on:

(10 x 3 = 30)

1. Mention different types of splints used in Emergency Department.
2. Medical legal cases.
3. Multi parameter monitor.
4. Log roll.
5. What is Golden Hour?
6. Documentation.
7. What is Jaw thrust maneuver and its indications?
8. Abandonment.
9. Types of bandaging.
10. BLS algorithm.

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
(New Syllabus 2014-2015)

FIRST YEAR

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code: 801007

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain the components of EMS System?
2. Principles of life support – ACLS.
3. Define triage and elaborate on colour coded triage system.

II. Write Notes on:

(8 x 5 = 40)

1. Role of AED at outside the hospital.
2. Ryle's tube insertion.
3. Current trends of EMS.
4. Personal protective equipments used in hospitals.
5. Foreign body obstruction maneuver.
6. What is blood pressure? What are the methods used to measure blood pressure?
7. Air ambulance and its functions.
8. What is privacy? Write 5 situations in emergency department in which you will ensure privacy?

III. Short answers on:

(10 x 3 = 30)

1. Medical legal cases.
2. Consent.
3. Log roll.
4. Abandonment.
5. Mention 5 sizes of intra venous cannula with their colour coding.
6. Laryngeal Mask Airway (LMA) and its uses.
7. Safety during transport to hospital.
8. Oxygen delivery devices.
9. Criteria for not starting CPR.
10. What are ancillary department?

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

[AHS 0321]

MARCH 2021

Sub. Code: 1007

(AUGUST 2020 EXAM SESSION)

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

FIRST YEAR (From 2014-2015 onwards)

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P. Code : 801007

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. History of EMS & current trends.
2. What is Medico Legal Issues? List out MLC and explain.
3. What are Medical records? Write about its purposes and safety.

II. Write Notes on:

(8 x 5 = 40)

1. Palpation and its types.
2. Medical Insurance.
3. Paediatric Life support.
4. List out the Para medical staff.
5. Purposes of History Collection.
6. What is Privacy? Write 5 situations in emergency department in which you will ensure privacy?
7. Emergency provider level training and skills.
8. Importance of necessity of patient confidentiality.

III. Short answers on:

(10 x 3 = 30)

1. Assault.
2. Mention 5 sizes of intra venous cannula with their colour coding.
3. What is Jaw thrust maneuver and its indications?
4. Multi parameter monitor.
5. What is verbal consent?
6. What is admission procedure?
7. Types of bandaging.
8. Electronic Medical records.
9. Roles and Responsibilities of Emergency Care Technician.
10. Negligence.

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

[AHS 0422]

APRIL 2022

Sub. Code: 1007

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSIONS)

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

FIRST YEAR (Regulations 2018-2019)

PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I

Q.P NO. 801007

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. a) What is upper airway?
b) What are all the common manual maneuvers used to open the airway?
c) What are all the common methods to provide ventilations in CPR and describe Bag mask ventilation technique?
2. a) Algorithm for cardiac arrest.
b) List out the resuscitation team members and explain the role of each member.
3. a) Principles of life support for unconscious patient.
b) Care in bed sore management for unconscious patient.

II. Write notes on:

(8 x 5 = 40)

1. Wound management.
2. History taking and physical Examinations.
3. Ryles tube indication and contraindications.
4. Personal protective equipments.
5. Components of EMS system.
6. Ambulance communication system.
7. ROSC.
8. Health information system.

III. Short answers:

(10x3=30)

1. Define Head Tilt – Chin Lift methods in opening the Airway.
2. Define spinal injury.
3. List out the 5 equipment's used in physical examination.
4. Explain olfactory examination.
5. Define LOG ROLL method.
6. Define chest Recoil.
7. Foregoing body obstruction maneuver?
8. Define Emergency provider level training.
9. What are all the symptoms and sign in life threatening chest injury?
10. What are all the complications of CPR?

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 1007

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
FIRST YEAR (Regulation 2018-2019)
PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I
Q.P NO. 801007**

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define shock. What are the different types of shock and elaborate on any one.
2. Write in detail about pre hospital transport of patient and equipments needed.
3. Define disaster and triage. Describe color coded triage classification in disaster.

II. Write notes on:

(8 x 5 = 40)

1. Sequence of spinal immobilization.
2. Indication of air transport in trauma victim.
3. Oxygen therapy – types of masks with flow rate.
4. C-spine immobilization in trauma.
5. Scene safety.
6. Role of Automated External defibrillators outside the hospital.
7. Foreign body obstruction maneuver.
8. Describe basic preparation of pediatric patient for transport.

III. Short answers:

(10x3=30)

1. Define consent.
2. Why do we have need Emergency medicine as separate specialty?
3. Plaster of Paris.
4. Define Communicable disease.
5. Define DNR.
6. Pre arrival intimation.
7. Write five signs of Hypovolemia.
8. First aid in thermal burns.
9. How will you explain and get consent for emergency surgery?
10. Define Mean Arterial Pressure.

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

[AHS 0423]

APRIL 2023

Sub. Code: 1007

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
FIRST YEAR (Regulations 2010-2011 & 2018-2019 onwards)
PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I
Q.P. Code: 801007**

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Principles of Life Support – ACLS.
2. History of Ambulance. Explain about Air Ambulance and its uses.
3. Techniques of Physical Examination and its remarks.

II. Write notes on:

(8 x 5 = 40)

1. DNR Order.
2. EMS at a National level.
3. Importance of Necessity of patient confidentiality.
4. Foreign body obstruction maneuver.
5. Classification of Hospital.
6. Signs and symptoms of injured joint.
7. What are the common manual maneuvers used to open the airway?
8. Roles and Responsibilities of Emergency Care Technician.

III. Short answers:

(10 x 3 = 30)

1. What is Golden Hour?
2. Documentation.
3. Criteria for not starting CPR.
4. Abandonment.
5. Define Triage.
6. BLS algorithm.
7. What are Ancillary Departments?
8. List out five Articles used for physical examination.
9. Shockable and Non shockable rhythm.
10. Glucometer.

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 1007

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
FIRST YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)
PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I
Q.P. Code: 801007

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What is Inter Facility Transport? What are the preparations you will take to ensure safe transport of a critically ill patient? What are the types of communication you will use before, during and after Inter Facility Transport?
2. General management of Poison patient.
3. Describe the composition of Resuscitation team. Explain the role of each member.

II. Write notes on:

(8 x 5 = 40)

1. Triage.
2. Pulmonary segments.
3. Activated charcoal.
4. List out all cranial nerves.
5. Indications and contraindications of Ryle's tube.
6. How will you care for a Bleeding wound?
7. Precautions during Defibrillation.
8. Protection of the Health Care Worker while handling an emergency case.

III. Short answers:

(10 x 3 = 30)

1. Name three drugs used in Anaphylaxis.
2. Steps of Hand washing.
3. Mention three causes of Hypovolemic shock.
4. Mention three types of Splints.
5. Mention three signs of Injured joint.
6. Purpose of Physical Assessment.
7. Types of Consent.
8. What is ABC in Primary survey?
9. Log Roll.
10. Medical Negligence.

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

[AHS 0424]

APRIL 2024

Sub. Code: 1007

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
FIRST YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)
PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I
Q.P. Code: 801007

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Medical legal issues in Emergency Medical Services.
2. Hospital: a) Classification b) Organization pattern of Hospital c) Structure.
3. What is an Ambulance? Write a brief history about Ambulance.

II. Write notes on:

(8 x 5 = 40)

1. Documentation.
2. Principles of life support.
3. Methods of physical assessment.
4. Triage.
5. Algorithm for ACLS.
6. Housekeeping in hospital.
7. Role of emergency care technician.
8. What are all the safety measures taken while transporting the patient?

III. Short answers on :

(10 x 3 = 30)

1. Define Confidentiality.
2. What is AVPU?
3. What is Trauma registry?
4. Define Mean Arterial Pressure.
5. Write five signs of Hypovolemia.
6. Draw and label the parts of endotracheal tube.
7. Enumerate five symptoms and signs of head injury.
8. List out the five emergency medicines used in ambulance.
9. Why is past history of diseases important while handling an emergency care?
10. First Aid in scene of injury.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 1007

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
FIRST YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)
PAPER II – INTRODUCTION TO EMERGENCY MEDICINE (EM) AND EMS-I
Q.P. Code: 801007

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe types and functions of hospital. What are inter department facilities available in the hospital?
2. Explain the Components of EMS System.
3. Discuss the Rules and Responsibilities of EMS under the following headings:
 - a) What is inter facility transport?
 - b) Sequence of procedure for Emergency call - preparation and scene management.
 - c) Safety during transport to hospital.

II. Write notes on:

(8 x 5 = 40)

1. Mention five signs and symptoms of respiratory distress in an adult.
2. Modifications of BLS in a pregnant woman.
3. Colour coded triage system.
4. IKT (Innuyir Kaapom Thitam) – 48 Insurance Scheme.
5. What is Blood Pressure? What are the methods used to measure Blood Pressure?
6. Role of Automated External Defibrillator (AED) at outside the hospital.
7. Describe the Bag mask ventilation technique.
8. ACLS algorithm.

III. Short answers on:

(10 x 3 = 30)

1. What is Arterial Blood Gas (ABG) analysis? Write five clinical indications to perform ABG.
2. Log roll.
3. Consent.
4. Common Medicolegal issues in EMS.
5. Responsibilities of EMS Technician.
6. Oxygen delivery devices.
7. Types of bandaging.
8. Head tilt and chin lift maneuver – Advantages and Disadvantages.
9. Sequence of spinal immobilization.
10. Purposes of Physical assessment.
