

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

THIRD YEAR

PAPER I – EMERGENCY MEDICINE (EM) AND EMS – III

Q.P. Code: 801026

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. a) Define Acute Renal Failure.
b) Causes of Acute Renal Failure.
c) Complications of Acute Renal Failure.
2. a) Write names of Venomous snakes found in India (at least four).
b) Clinical features of snake envenomation.
c) First-Aid and treatment of snake envenomation in India.
3. a) What are the types of shock?
b) Five causes of hypovolemic shock.
c) Signs and symptoms of hypovolemic shock.
d) Fluid resuscitation and monitoring in hypovolemic shock.

II. Write notes on:

(8 x 5 = 40)

1. Define triage and how to triage victims after a disaster.
2. Mention 3 uses of atropine and 3 signs of atropine toxicity.
3. What is an antidote? Mention 5 antidotes for common poisoning or over dosages.
4. Symptoms, signs and common causes of upper gastrointestinal bleed.
5. What is hydrocortisone? How does it act? Name four emergency conditions in which hydrocortisone is used?
6. What are types of foreign body obstruction? Methods used to treat life threatening foreign body obstruction.
7. What are the types of heart block and mention their typical ECG findings?
8. Electrocution injuries – presentation and complications.

III. Short answers on:

(10 x 3 = 30)

1. Mention 4 uses of salbutamol in Emergency Department.
2. Clinical features of airway obstruction.
3. Mention five reversible causes of sudden cardiac arrest.
4. Signs and symptoms of scorpion sting.
5. Paediatric Glasgow Coma Scale.
6. Clinical features and immediate management of hyperventilation.
7. Drugs used in acute chest pain.
8. Single rescuer CPR algorithm for a child aged 4 years.
9. Drugs that can be administered intraosseously.
10. Four indications for unsynchronized cardio version.

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Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. a) Define Anaphylaxis.
b) Clinical features of anaphylaxis.
c) Emergency treatment of anaphylaxis.
d) Common causes of anaphylaxis.
2. a) Enumerate ten causes of acute abdomen.
b) Define acute pancreatitis.
c) Clinical feature of acute pancreatitis.
d) Emergency management of acute pancreatitis.
3. a) Define Myocardial Infarction.
b) Clinical features of Myocardial Infarction and investigations for Myocardial Infarction.
c) Immediate management of Myocardial Infarction.
d) Complications of Myocardial Infarction.

II. Write notes on:

(8 x 5 = 40)

1. Clinical features of acute meningitis. Initial management of acute meningitis.
2. Management of Diabetic Keto Acidosis (DKA).
3. Classification of dehydration in children.
4. Differences in Cardio pulmonary Resuscitation (CPR) between adult and children less than 8 years.
5. What is Glasgow Coma Scale and write the various components of GCS with scoring?
6. Name 5 causes pulmonary edema and describe the clinical features of pulmonary edema.
7. Dengue shock syndrome, clinical features and laboratory finding.
8. Paracetamol poisoning – clinical features, toxicity and treatment.

III. Short answers on:

(10 x 3 = 30)

1. Alcohol withdrawal syndrome – symptoms, signs and ED management.
2. Emergency Management of Hyperkalemia
3. Mention common causes of Hypoxia in Emergency Department.
4. Clinical features of abdominal aortic aneurysm.
5. List the drugs used in Hypertensive emergencies.
6. Therapeutic uses of aspirin in emergencies.
7. Define –Pre-eclampsia and what investigation is ordered for pre-eclampsia in Emergency Department
8. Febrile convulsion – Types and Treatment.
9. MANTREL score.
10. Mention the Signs and symptoms of pulmonary embolism.

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Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. You are witnessing a two wheeler accident as you are returning back from an ambulance drop. How will you save the victim?
2. Write briefly about the clinical features and management of a case of Snake bite.
3. What are the different types of transfusions? Elaborate on the complications associated with transfusion.

II. Write notes on:

(8 x 5 = 40)

1. NIPPV.
2. Hyper natremia management.
3. Adenosine.
4. Child abuse.
5. Dengue fever.
6. Anaphylaxis.
7. Hypoglycemia.
8. Rabies immunization.

III. Short answers on:

(10 x 3 = 30)

1. What is triage?
2. What is the premedication given in a case of myocardial infarction?
3. Mention the shockable rhythms of cardiac arrest.
4. Iono tropes.
5. Fluid resuscitation in Burns patient guidelines.
6. What is hypothermia?
7. Rhabdomyolysis.
8. Autotransfusion.
9. Components of Apgar score.
10. Indications and contraindications of Stomach wash.

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Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Define Anaphylaxis. How will you manage a Patient who has come to you in anaphylactic shock? Give few examples of anaphylactic agents.
2. There has been a two wheeler accident and the driver has collapsed. You are passing by in an ambulance. How will you save the pt?
3. Write in brief the Bradycardia Algorithm.

II. Write notes on:

(8 x 5 = 40)

1. Hypoglycemia.
2. Amiodarone.
3. Hypovolemic shock.
4. Blood transfusion.
5. Universal precautions.
6. Hospital acquired infection.
7. Insulin.
8. Multiparameter monitor.

III. Short answers on:

(10 x 3 = 30)

1. Steps of handwashing.
2. Cervical collar.
3. Hospital waste management.
4. Types of blood transfusion.
5. Airway trolley.
6. Pelvic binder.
7. Mention the auscultatory areas of the heart.
8. Shockable rhythms.
9. Atropine.
10. Ringer lactate.

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Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Diabetic ketoacidosis – clinical features and management.
2. Clinical features and management of a case of Scorpion sting.
3. What are the manifestations of heat related injuries? How will you manage heat stroke?

II. Write notes on:

(8 x 5 = 40)

1. Malaria.
2. Hemorrhagic stroke.
3. Fluid resuscitation in burns.
4. Submersion injuries.
5. Hypothermia.
6. Hypokalemia management.
7. Adenosine.
8. Ventricular tachycardia.

III. Short answers on:

(10 x 3 = 30)

1. AED.
2. What are the symptoms seen in a case of OPC poisoning?
3. Indications for cardioversion.
4. Hypothermia.
5. Causes of cardiac arrest.
6. Indications for gastric lavage.
7. Glasgow coma scale.
8. Respiratory failure.
9. Consent.
10. Triage.

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Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. COPD – Causes and its Emergency management.
2. What are the risk factors for Myocardial Infarction (MI)? List out the complications, investigations and emergency management of acute MI?
3. Explain briefly about the clinical features and emergency management of patient with snake bite.

II. Write notes on:

(8 x 5 = 40)

1. 12 lead ECG.
2. Hypokalemia.
3. Management for Gastrointestinal bleeding.
4. Aspirin.
5. Scabies.
6. Tetanus.
7. Types of heart block and their ECG findings?
8. Suicide.

III. Short answers on:

(10 x 3 = 30)

1. Management of scorpion bite?
2. Metabolic acidosis.
3. Clinical uses of Atropine.
4. What is cord prolapse and presentation?
5. Causative organism and mode of transmission of Tuberculosis.
6. What is crush injury?
7. What is Hypernatremia and its clinical features?
8. Nebuliser.
9. What is DKA?
10. What is Status epilepticus?

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

[LR 1220]

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

Sub. Code: 1026

**BACHELOR IN ACCIDENT AND EMERGENCY CARE TECHNOLOGY
THIRD YEAR – (Regulation from 2014-2015)
PAPER I – EMERGENCY MEDICINE (EM) AND EMS - III
*Q.P. Code: 801026***

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Emergency management of a mother with Postpartum Haemorrhage.
2. Describe the etiology, clinical features, diagnosis and management of Pulmonary Oedema.
3. Explain briefly about the Renal failure and emergency management of patient with ARF?

II. Write notes on:

(8 x 5 = 40)

1. Hypercalcemia.
2. Respiratory alkalosis.
3. Clinical features and Management for Heat Stroke.
4. Pericardial Effusion.
5. Treatment of UTI.
6. Mention the clinical manifestations and management of Acute Pancreatitis.
7. Types of Anaemia and its management.
8. Dopamine.

III. Short answers on:

(10 x 3 = 30)

1. Respiratory Acidosis.
2. Classification of Intravenous fluids.
3. Management of Hernia.
4. What are Beta Blockers? Give examples.
5. Management of Herpes Zoster.
6. What is an Antitode?
7. Rabies Vaccine.
8. APGAR Score.
9. What is Placenta Praevia?
10. Management for Diarrhoea.

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

[AHS 0122]

JANUARY 2022

Sub. Code: 1026

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR – (Regulation from 2014-2015)

PAPER I – EMERGENCY MEDICINE (EM) AND EMS - III

Q.P. Code: 801026

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Classification of Poisoning. How will the poison get absorbed in the body? Describe the signs, symptoms and treatment of Opioid intoxication.
2. Describe about the causative organism, mode of transmission, signs and symptoms, diagnosis and treatment of Dengue fever.
3. Describe about SLE – Causes, Pathogenesis, signs and symptoms, diagnosis and its treatment.

II. Write notes on:

(8 x 5 = 40)

1. Febrile convulsion.
2. As an Emergency technician, how will you manage an aggressive patient in the emergency department?
3. Predisposing factors of Pre- eclampsia and explain the medical management
4. Herpes zoster.
5. Clinical features and Treatment for acute Pancreatitis.
6. Diazepam.
7. Leprosy.
8. Emergency management of Dog bite.

III. Short answers on:

(10 x 3 = 30)

1. Define Poison and mention some types of poison.
2. Causative organism and incubation period of Chicken pox.
3. What is Hypoglycemia?
4. Advantages of IV fluid therapy.
5. Types of Hernia.
6. Measures to reduce Hyperthermia.
7. Causes of MI.
8. What is Megaloblastic anaemia?
9. What is Diabetic Keto acidosis?
10. Management for Meconium Aspiration syndrome.

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

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 1026

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR – (Regulation from 2014-2015)

PAPER I – EMERGENCY MEDICINE (EM) AND EMS – III

Q.P. Code: 801026

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define Myocardial Infarction. Explain about the causes, complications, investigations and emergency management of acute MI.
2. Explain Etiology, Diagnosis and management of Post Partum Hemorrhage.
3. Describe the etiology, types, clinical features and management of Stroke.

II. Write notes on:

(8 x 5 = 40)

1. Meconium aspiration syndrome.
2. Hepatitis B.
3. Scabies.
4. Atropine.
5. Urolithiasis.
6. Cholecystitis.
7. Pulmonary edema.
8. Hypovolemic shock.

III. Short answers on:

(10 x 3 = 30)

1. Crush Injury.
2. Types of Blood transfusion.
3. Indications for Gastric lavage.
4. AED.
5. Management of Scorpion bite.
6. Diabetic Ketoacidosis.
7. Dopamine.
8. Define Poison and mention some types of Poison.
9. SLE.
10. Nebulizer.

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

[AHS 0423]

APRIL 2023

Sub. Code: 1026

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
THIRD YEAR – (Regulations 2014-2015 & 2018-2019 onwards)
PAPER I – EMERGENCY MEDICINE (EM) AND EMS – III
*Q.P. Code: 801026***

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define Anaphylaxis. How will you manage a Patient who has come to you in anaphylactic shock? Give few examples of anaphylactic agents.
2. Describe the etiology, clinical features, diagnosis and management of Pulmonary Oedema.
3. Define Status Epilepticus and its Clinical features, investigations and Management of Status Epilepticus.

II. Write notes on:

(8 x 5 = 40)

1. Suicide.
2. Meningitis.
3. Urinary tract infection.
4. Peptic ulcer disease.
5. Asthma.
6. Adenosine.
7. 12 lead ECG.
8. Organophosphorus Poisoning.

III. Short answers on:

(10 x 3 = 30)

1. Cervical collar.
2. Ringer lactate.
3. Glasgow coma scale.
4. Causative organism and mode of transmission of tuberculosis.
5. Hypoglycemia.
6. Beta blockers.
7. What is Diabetic ketoacidosis?
8. Define Pre-eclampsia.
9. What is log roll? List down the indication, contraindication and precaution.
10. Oxygen therapy.

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 1026

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR – (Regulations 2014-2015 & 2018-2019 onwards)

PAPER I – EMERGENCY MEDICINE (EM) AND EMS – III

Q.P. Code: 801026

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Emergency management of a mother with Postpartum Haemorrhage.
2. Describe the etiology, clinical features, diagnosis and management of Hypertensive Emergencies.
3. Explain briefly about Diabetic Mellitus and management of patient with Diabetic Mellitus.

II. Write notes on:

(8 x 5 = 40)

1. Classification of IV fluids.
2. Respiratory alkalosis.
3. Clinical features and Management for Scabies.
4. Hepatitis B.
5. Lidocaine – clinical uses.
6. Degrees of Placenta Praevia.
7. Oxytocin.
8. Neonatal Resuscitation.

III. Short answers on:

(10 x 3 = 30)

1. Different positions used for Umbilical Cord replacement.
2. First Aid for spider bite.
3. Define Apnoea and its management.
4. What is Plague and its clinical features?
5. What is Meningitis? Drugs to reduce ICH.
6. Causes of Pulmonary edema.
7. Rabies vaccine.
8. Cholecystitis.
9. Aortic Aneurysm.
10. Modes of absorption of poison in the body.

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

[AHS 0424]

APRIL 2024

Sub. Code: 1026

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
THIRD YEAR – (Regulations 2014-2015 & 2018-2019 onwards)
PAPER I – EMERGENCY MEDICINE (EM) AND EMS – III
Q.P. Code: 801026**

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define Acute Renal Failure. Explain the Causes and Complications of Acute Renal Failure.
2. Describe about SLE – Causes, Pathogenesis, Signs and Symptoms, Diagnosis and its Treatment.
3. Define COPD. Explain the Causes and its Emergency Management.

II. Write notes on:

(8 x 5 = 40)

1. Clinical features of Heat stroke.
2. Aspirin.
3. Diarrhea.
4. Scabies.
5. Tetanus.
6. List down four Antidotes and their uses.
7. Management of Acute Pulmonary Edema.
8. Bites and Stings.

III. Short answers on:

(10 x 3 = 30)

1. ECG changes in Hyperkalemia.
2. What are the causes for lower GI bleeding?
3. Indications for Inter-costal drainage.
4. Signs and symptoms of Acute Appendicitis.
5. Diabetic Ketoacidosis.
6. Electrocution.
7. Mode of transmission of AIDS.
8. Define Pre-eclampsia.
9. Define Nosocomial infection.
10. Mannitol.

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

[AHS 0125]

JANUARY 2025

Sub. Code: 1026

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR – (Regulations 2014-2015 & 2018-2019 onwards)

PAPER I – EMERGENCY MEDICINE (EM) AND EMS – III

Q.P. Code: 801026

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Clinical features and management of a case of Snake bite.
2. Define Anaphylaxis. How will you manage a patient who has come to you in anaphylactic shock? Give a few examples of anaphylactic agents.
3. What are the manifestations of heat related injuries? How will you manage heat stroke?

II. Write notes on:

(8 x 5 = 40)

1. Hypoglycemia.
2. Dehydration.
3. Basic Modes of Ventilation.
4. Normal ECG waves & Intervals.
5. Vasovagal syncope.
6. Sudden Infant Death Syndrome.
7. Thyroid Crisis.
8. Status Epilepticus.

III. Short answers on:

(10 x 3 = 30)

1. Digoxin toxicity.
2. Management of pruritis.
3. Mention any two Neuromuscular blockers.
4. Mention any two common organisms causing Urinary tract infection.
5. Define the term poison and any two major ways in which a poison may enter a body?
6. Mode of transmission of a) Cholera b) Chicken Pox.
7. Mannitol.
8. Post Partum Hemorrhage.
9. Thrombasthenia.
10. Beta blockers.

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

[AHS 0425]

APRIL 2025

Sub. Code: 1026

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR – (Regulations 2014-2015 & 2018-2019 onwards)

PAPER I – EMERGENCY MEDICINE (EM) AND EMS – III

Q.P. Code: 801026

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Discuss in detail about the causative organism, mode of transmission, clinical features and management of Meningitis.
2. Explain Diabetic ketoacidosis – clinical features and management.
3. Explain briefly about the clinical features and emergency management of patient with Angina pectoris.

II. Write notes on:

(8 x 5 = 40)

1. Organophosphates.
2. Ectopic pregnancy.
3. Pemphigus vulgaris.
4. Types of Heart block.
5. Aspirin.
6. Management of Tetanus.
7. Renal calculi.
8. Complications of Diabetes mellitus.

III. Short answers on:

(10 x 3 = 30)

1. Amputation.
2. Ketamine.
3. What is crush Injury?
4. Triage.
5. Glasgow Coma scale.
6. Mention any three Emergency drugs used in Cardiac departments.
7. Mention the causative organism for a) Typhoid b) Measles.
8. Drowning.
9. Indications for Gastric lavage.
10. Define Meconium Aspiration Syndrome.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 1026

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR – (Regulations 2014-2015 & 2018-2019 onwards)

PAPER I – EMERGENCY MEDICINE (EM) AND EMS – III

Q.P. Code: 801026

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Definition, Clinical Features and Management of Anaphylaxis in Emergency Department.
2. Explain in detail about the causes, clinical features, investigations and management of Myocardial Infarction in Emergency Department.
3. Describe in detail about Stroke, its types, clinical features, investigations and Management in Emergency Department.

II. Write notes on:

(8 x 5 = 40)

1. Management of Hyperkalemia in Emergency.
2. Define Hyperthermia and List Heat-related emergencies.
3. Types of Heart Block and its ECG changes.
4. Amiodarone.
5. Causes and Management of Bowel Obstruction.
6. Herpes Zoster.
7. Management of Meconium Aspiration.
8. Management of Aggressive patient in Emergency Department.

III. Short answers on:

(10 x 3 = 30)

1. Definition of Respiratory Alkalosis. List three causes.
2. Describe basic modes of ventilation.
3. Define Amputation. Mention few examples.
4. What is Syncope? Mention few causes.
5. Definition of Status Epilepticus. Mention Drugs used in status Epilepticus.
6. Management of Urinary Tract Infection.
7. Define Polycythemia and explain its two main types.
8. 12 lead ECG system.
9. Mention drugs used in Tachyarrhythmia.
10. Definition of Hernia with few examples.
