

[LB 0212]

AUGUST 2012

Sub. Code: 1013

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

SECOND YEAR

PAPER - III – EMERGENCY MEDICINE (EM) & EMS

Q.P. Code : 801013

Time : Three hours

Maximum : 100 marks

(180 Mins) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks
(Max.)(Max.)(Max.)

- | | | | |
|--|---|----|----|
| 1. Classify Haemorrhagic shock. Describe the methods of management of Haemorrhagic shock. | 7 | 20 | 10 |
| 2. Mechanism of injury and potential injury patterns. Explain in detail regarding Scene size up. | 7 | 20 | 10 |
| 3. What is Synchronised Cardioversion? Mention the steps of Synchronised Cardioversion. | 7 | 20 | 10 |

II. Write Notes on:

- | | | | |
|---|---|----|---|
| 1. Trimodal peak of death. | 4 | 10 | 5 |
| 2. Preparation and steps of Paediatric Endotracheal Intubation. | 4 | 10 | 5 |
| 3. Foreign Body Airway Obstruction (FBAO) – a) Mention the features b) Describe the different methods of relieving of FBOA. | 4 | 10 | 5 |
| 4. Glasgow Coma Scale (Adult, Paediatric & Infant). | 4 | 10 | 5 |
| 5. Monroe – Kellie Doctrine. | 4 | 10 | 5 |
| 6. Flail chest – Definition, Pathophysiology, Clinical features and Management. | 4 | 10 | 5 |
| 7. Expand ‘AMBU’. Draw and Mention parts of AMBU bag. Describe the techniques of Bag Valve Mask Ventilation. | 4 | 10 | 5 |
| 8. Write in detail regarding Post Resuscitation care. | 4 | 10 | 5 |

III. Short Answers on:

- | | | | |
|--|---|---|---|
| 1. Draw diagram and Laryngeal Mask Airway and label. | 2 | 4 | 3 |
| 2. Mention the indication and explain the procedure of ‘Needle Thoracocentesis’. | 2 | 4 | 3 |
| 3. Mention the drugs used in Cardiac arrest. | 2 | 4 | 3 |
| 4. How do you measure the percentage of thermal burns? | 2 | 4 | 3 |
| 5. Antidote for: a) Organophosphorus compound b) Tricyclic Antidepressants c) Cyanide. | 2 | 4 | 3 |
| 6. Expand ‘FAST’ in Trauma victim and explain. | 2 | 4 | 3 |
| 7. What are the methods to confirm Endotracheal tube position and placement? | 2 | 4 | 3 |
| 8. How do you measure Blood pressure using a Sphygmomanometer? | 2 | 4 | 3 |
| 9. Draw a normal “PQRST” of an ECG and mention their significance. | 2 | 4 | 3 |
| 10. Write in detail regarding Cricoid pressure. | 2 | 4 | 3 |

[LC 0212]

FEBRUARY 2013

Sub. Code: 1013

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

SECOND YEAR

PAPER - III – EMERGENCY MEDICINE (EM) & EMS

Q.P. Code : 801013

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Elaborate on:

(3x10 =30)

- 1) Mechanism of injury and potential injury patterns. Explain in detail regarding Scene size up.
- 2) What is Synchronised Cardioversion? Mention the steps of Synchronised Cardioversion.
- 3) Define Allergy and Anaphylaxis. Write notes about Pathophysiology of Anaphylaxis and its management.

II. Write Notes on:

(8 x 5=40)

- 1) Glasgow Coma Scale (Adult, Paediatric & Infant)
- 2) Steps of Laryngoscopic orotracheal Intubation
- 3) Monroe – Kellie Doctrine
- 4) Flail chest – Definition, Pathophysiology, Clinical features and Management
- 5) Expand ‘AMBU’. Draw and Mention parts of AMBU bag. Describe the techniques of Bag Valve Mask Ventilation
- 6) Write in detail regarding Post Resuscitation care.
- 7) Tension Pneumothorax - Definition, Pathophysiology, Clinical features and Management
- 8) Revised trauma score

III. Short Answers on:

(10 x 3=30)

- 1) Draw diagram of Laryngeal Mask Airway and label
- 2) What are the methods to confirm Endotracheal tube position and placement?
- 3) Approach to Bradycardia
- 4) How do you prepare an amputated part for preservation and transport?
- 5) Management of Open Pneumothorax in Emergency Medical Services Transport.
- 6) Defibrillation – Define and Describe the steps of defibrillation
- 7) How do you measure Blood pressure using a Sphygmomanometer?
- 8) Draw a normal ‘PQRST’ of an ECG and mention their significance.
- 9) Expand ‘FAST’ in Trauma victim and explain
- 10) Write in detail regarding Cricoid pressure

[LB 0212]

AUGUST 2013

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B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

SECOND YEAR

PAPER - III – EMERGENCY MEDICINE & EMS

Q.P. Code : 801013

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Elaborate on:

(3x10 =30)

1. Laryngoscopic Orotracheal Intubation:
 - a) Equipment. b) Procedure. c) Immediate confirmation of ET Tube.
 - d) Anchoring the tube.
2. Thermal burns – Definition, Classification, Rule of nine and Management in detail.
3. Write in detail about Splinting, Principles of splinting and Types of Splints.

II. Write Notes on:

(8X5=40)

1. Criteria for ‘Referral to Trauma Center’.
2. Mention the various color coding of IV Cannulas with their sizes and mention their infusion rates.
3. Cricothyroidotomy –
 - a) Describe b) Indication c) Types d) Procedure.
4. Describe in detail regarding Triage.
5. Hypoglycaemia – a) Definition b) Causes c) Treatment.
6. A 25 year man suddenly chokes while he is eating. What do you do at the scene to relieve his distress?
7. Approach to Adult Cardiac arrest.
8. Describe the different methods of Extrication. What is its importance? Method of spine immobilization by Spine board.

III. Short Answers on:

(10X3=30)

1. Draw diagram and label the cross section of heart.
2. Draw diagram of contents of Femoral triangle and label.
3. What is Log Roll? Mention the procedure, indications, contraindications and precautions.
4. Glasgow Coma Scale (Adult).
5. Mallampatti Classification of Airway.
6. Apgar score and its applications.
7. Define shock. Mention the types of shock.
8. Write about Umbilical vein catheterization.
9. Ventilator troubleshooting – How will you evaluate?
10. 8 Year boy is in hypovolemic shock. Explain in detail about the volume of fluid resuscitation and maintenance.

[LE 0212]

FEBRUARY 2014

Sub. Code: 1013

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
SECOND YEAR**

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

Q.P. Code : 801013

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Elaborate on:

(3x10 =30)

1. Managing a trauma victim from roadside to the hospital
2. Unconscious patient
3. How to resuscitate a patient

II. Write Notes on:

(8 x 5=40)

1. Oxygen
2. Diabetes
3. Multi parameter monitor (Oximetry)
4. Dehydration
5. Anatomy of Heart
6. Fever
7. Splinting fractures
8. Prevention of AIDS

III. Short Answers on:

(10 x 3=30)

1. Blood pressure
2. Oxygen
3. Assessing Pulse
4. I.V Cannulae
5. Thermometer
6. X ray
7. Glucometer
8. Allergy
9. Atlas
10. Child Anatomy & Physiology compared with adult

[LF 0212]

AUGUST 2014

Sub. Code: 1013

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
SECOND YEAR
PAPER - III – EMERGENCY MEDICINE (EM) & EMS -I**

Q.P. Code : 801013

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

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

1. Advanced cardiac life support Algorithm.
2. Different types of Shock and Management of haemorrhagic shock.
3. Hospital waste disposal.

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

1. Primary survey in Trauma victim.
2. Tetanus immunization for Trauma Patient.
3. Glasgow coma scale.
4. FAST in Trauma.
5. Mallampatti Classification.
6. Amiodarone.
7. Rule of nine in Burns.
8. Sterilisation.

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

1. Mass casualty.
2. Triage.
3. Trauma series X-Ray.
4. Where to check central pulse in.
 - a) Adults
 - b) Children
 - c) Neonates
5. Mention communicable respiratory and intestinal disease.
6. Define nosocomial infection.
7. Degree of Burns and how to assess the depth of burns.
8. Define compartment syndrome.
9. Various modes of transmission of diseases.
10. Define hypothermia.

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
SECOND YEAR**

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

Q.P. Code : 801013

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

I. Elaborate on:

(3 x 10 =30)

1. Tuberculosis.
2. Advanced cardiac life support in paediatrics.
3. Primary and secondary survey in Trauma.

II. Write Notes on:

(8 x 5 = 40)

1. Monroe – Kellie doctrine in Head Injury.
2. Phases of disaster Management.
3. Sterilisation.
4. Basic life support in Adults.
5. Glasgow Coma scale.
6. Rapid sequence Intubation.
7. Adrenaline.
8. Special resuscitation situations.

III. Short Answers on:

(10 x 3 = 30)

1. Define triage and color coding in triage.
2. Difference between Mass casualty and Multiple casualty.
3. Difference between Extradural and Subdural haematoma.
4. Define compartment syndrome.
5. Expand FAST and where is it used.
6. Drugs used in Cardiac Arrest - Mention.
7. Which drug used in Cardiac Arrest can be given through Endotracheal tube and mention its dosage?
8. Gum elastic Bougie.
9. Mention various Artificial Airways used.
10. Mention the ratio of Blood loss: Crystalloid, Blood loss: Colloid and Blood loss: Blood products in Traumas.

[LH 0815]

AUGUST 2015

Sub. Code: 1013

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

SECOND YEAR

**PAPER III – EMERGENCY MEDICINE (EM) & EM-I PRACTICAL EXAM ON
PATIENT EXAMINATION, NURSING, TRIAGE, LIFE SUPPORT, TRAUMA CARE**

Q.P. Code: 801013

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Endo Tracheal Tube Intubation.
 - a. Equipment preparation.
 - b. Procedure.
 - c. Positioning/Immediate confirmation of ET tube.
 - d. Post intubation care.
2. Write in detail about Lifting and Transporting of injured persons.
3. a. Define Disaster.
 - b. Write in detail about Disaster Cycle/Preparedness, Team, Guidelines, Equipments, Resources.

II. Write notes on:

(8 x 5 = 40)

1. Principles of Emergency Management.
2. Describe in detail Glasgow Coma Scale.
3. Describe in detail regarding Triage.
4. What are some general management considerations in Sepsis?
5. What are some causes of an anion gap acidosis?
6. What are the three peak times for traumatic death and common causes of death for each?
7. Why are penetrating neck injuries so dangerous? Name some important structures in the neck?
8. Cardiac Tamponade.
 - a. Definition.
 - b. Discuss about ECG (Electrocardiogram) changes, physical exam findings and considerations in the management of Cardiac tamponade.

III. Short answers on:

(10 x 3 = 30)

1. Draw diagram and label the cross section of heart.
2. Various colour coding of IV cannulas with their sizes and Mention their infusion rates.
3. Revised Trauma Score.
4. Meningitis.
5. How to dispose the human blood & blood products in Hospital Waste Management system?
6. Algorithm of BCLS (Basic Cardiac Life Support)
7. Management of Femur Fracture in ER.
8. Expand FAST. Where it is used?
9. a. How to calculate Mean arterial Pressure?
 - b. Define: Cardiac Output.
10. What are the signs of Hypotension?

[LI 0216]

FEBRUARY 2016

Sub. Code: 1013

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

SECOND YEAR

**PAPER III – EMERGENCY MEDICINE (EM) & EMS-I PRACTICAL EXAM ON
PATIENT EXAMINATION, NURSING, TRIAGE, LIFE SUPPORT, TRAUMA CARE**

Q.P. Code: 801013

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe on tracheostomy
a) Indications b) Types c) Procedures d) Complications
2. A 40 years old female complaints of palpitations with a heart rate of 196/min. Monitor shows irregularly irregular rhythm and narrow QRS complex. What is your diagnosis? Add a note on supraventricular tachycardia. Describe the steps of synchronized cardioversion.
3. List on types of Diabetes. Explain in detail about DKA and its management.

II. Write notes on:

(8 x 5 = 40)

1. Cardiac tamponade.
2. Primary Survey in a trauma patient.
3. Add a note on definition, clinical features and management of flail chest.
4. Atropine, Dose and usage in ED.
5. Approach to bradycardia.
6. Mallampati classification of airway.
7. Blood supply of heart. Add a note on pathophysiology of myocardial infarction with diagram
a) Management of status epilepticus b) Types of Epilepsy
8. Add a note scorpion sting.

III. Short answers on:

(10 x 3 = 30)

1. Confirmation of Endotracheal tube.
2. Management of DKA.
3. RTS (Revised trauma score) - use in triage.
4. Hyponatremia - complications and treatment.
5. Rabies immunoprophylaxis.
6. Pulse oximetry.
7. Epistaxis management.
8. Log roll and name its complications.
9. Draw normal ECG pattern. Name two causes for tented 'T' waves.
10. Parkland's formula for burns patient.

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
SECOND YEAR**

**PAPER III – EMERGENCY MEDICINE (EM) & EMS-I PRACTICAL
EXAM ON PATIENT EXAMINATION, NURSING, TRIAGE,
LIFE SUPPORT, TRAUMA CARE**

Q.P. Code: 801013

Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Define shock and types of shock and how will you grade hypovolemic shock and its management?
2. Concept of triage and how will you plan to resuscitate mass casualty situations?
3. Hospital acquired infections and preventive methods.

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

1. Advanced Trauma Life support.
2. Precautions during transporting injured persons.
3. Glasgow Coma score.
4. Precautions during cardio pulmonary resuscitation.
5. What are the different modes of disease transmission?
6. Colour coding in hospital waste disposal.
7. Importance in prevention of respiratory infection.
8. Types and methods of sterilization.

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

1. Man made disasters.
2. Name International organisations and agencies in emergency care.
3. TRIAGE – Concept.
4. Revised trauma score.
5. Manual in line stabilization.
6. Indicators of sterilization.
7. Autoclave methods.
8. Disinfection – Definition and agents used for?
9. Special resuscitation situations life drowning and pregnancy.
10. AMBU bag – Abbreviation and its uses.

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
SECOND YEAR**

**PAPER III – EMERGENCY MEDICINE (EM) & EMS-I PRACTICAL
EXAM ON PATIENT EXAMINATION, NURSING, TRIAGE,
LIFE SUPPORT, TRAUMA CARE**

Q.P. Code: 801013

Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Advanced Trauma Life Support.
2. Types and Methods of sterilization.
3. Causes and types of disaster.

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

1. Hospital acquired infections.
2. Hypovolemic shock.
3. Basic mechanism behind injury pattern.
4. Paediatric life support protocols.
5. Safety precautions during CPR.
6. Equipment arrangements during general emergencies.
7. Post traumatic stress disorder.
8. Types of disasters.

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

1. Name the organisations and international agencies in emergency care.
2. Primary survey and secondary survey in emergency care.
3. Basic life support in paediatric foreign body aspiration.
4. Shock definition and types.
5. Prevention of communicable disease.
6. Name equipments used in emergency care.
7. Triple maneuver and its importance.
8. Colour coding in hospital waste disposal.
9. AIDS and Emergency care. What are the precautions?
10. Disinfection - Definition and agents used for.
