

[LD 0212]

AUGUST 2013

Sub. Code: 1023

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR

Paper III – AMBULANCE EQUIPMENTS

Q.P. Code : 801023

Time: Three hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Define Triage. Mention the principles of triage. Classify triage and explain in detail.
2. General Principles of Intravenous access.
3. Mention the Techniques, Indications and contraindications of Gastric lavage of Activated charcoal individually.

II. Write Notes on:

(8 x 5 = 40)

1. Personal protective equipment.
2. Write in detail regarding Esophageal-Tracheal Combitube intubation.
3. Indications, contraindications, technique and complication of Nasogastric tube insertion.
4. Indications and contraindications of Splints and Casts
5. Gastric lavage - Techniques, Indications and contraindications.
6. Different methods of wound stitching.
7. Emergency department notification and preparation.
8. Write in detail regarding pediatric Orotracheal intubation.

III. Write Notes on:

(10 x 3 = 30)

1. Universal hand washing technique
2. Pneumatic anti shock garment (PASG) - Indications, contraindications and technique.
3. Pelvic compression distraction test.
4. Expand AMBU.
5. Write briefly regarding Pulseoximetry.
6. Mention 3 drugs given through Endotracheal tube.
7. Draw diagram of the spinal cord and label the parts.
8. Name 3 medical gases
9. Management of Tension Pneumothorax
10. Name 3 life threatening injuries associated with thoracic trauma

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe in detail regarding the Local role in Emergency Medical Services
2. Describe in detail regarding Airway and ventilation adjuncts. Mention the types, indications, advantages and disadvantages.
3. Write in detail regarding Spinal immobilization.

II. Write Notes on:

(8 x 5 = 40)

1. Personal protective equipment
2. Write in detail regarding laryngeal mask airway (LMA) insertion
3. Umbilical vein catheterization
4. Techniques of reduction of Hip joint dislocation
5. What is Activated charcoal? Mention the technique of administration, indications and contraindications.
6. Write in detail regarding Absorbable and Non absorbable sutures
7. Mention the types of Vehicles used in Emergency Medical Services.
8. Complications in Venous catheterization

III. Write Notes on:

(10 x 3 = 30)

1. Universal hand washing technique
2. Log roll
3. Needle thoracocentesis
4. Expand PASG
5. Write briefly regarding defibrillators
6. Mention 3 drugs used in cardiac arrest
7. Draw diagram of the conducting system of the heart and label the parts
8. Name 3 modes in mechanical ventilation
9. Management of an amputated hand for revascularization
10. Name 3 veins for central venous cannulation

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Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Mention about General Management of Poisoning
2. Insertion of Laryngeal mask airway
3. Write in detail regarding transporting a critically ill patient

II. Write Notes on:

(8 x 5 = 40)

1. Care of intercostals drainage tube during transport
2. Tracheal suctioning
3. Compartment syndrome
4. Care of amputated part for revascularization
5. Activated charcoal
6. Types of O₂ Cylinders
7. Mention the reversible causes of cardiac arrest
8. Mention the Do's & Don'ts of first aid in snake bite.

III. Write Answers on:

(10 x 3 = 30)

1. What is Beck's triad?
2. What is Little Man's sign?
3. Name 3 instruments used for chest tube placement
4. Name 3 drugs used in Cardiac arrest with doses
5. Name 6 drugs used in induction agents for endotracheal intubation
6. How to rule out cause for ventilator troubleshooting?
7. Types of spinal immobilization boards
8. Needle thoracocentesis
9. Needle Pericardiocentesis
10. Needle Cricothyroidotomy

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THIRD YEAR
Paper III – AMBULANCE EQUIPMENTS**

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Time: Three Hours**Maximum: 100 Marks**

Answer all questions

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

1. Write in detail regarding modern defibrillators. Mention its Physiology, functions, options and indications of Defibrillators.
2. Mention the steps of Endotracheal Intubation in detail.
3. Evaluation and management of Hyponatremia.

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

1. Mention Antidotes for
 - a) Organophosphorus Compound
 - b) Opioids
 - c) Benzodiazepine
 - d) Local Anesthetics
 - e) Paracetamol
2. Monitoring urine output in all age groups.
3. Crush syndrome.
4. Propofol infusion syndrome.
5. Spine Immobilization.
6. Gastric Lavage.
7. Types of O₂ Cylinders.
8. List out the life threatening conditions associated with thoracic trauma.

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

1. Draw diagram and label the parts of Non rebreathing mask.
2. Draw diagram and label the parts of Central Venous Triple Lumen Catheter.
3. Draw diagram and label the parts of vertebra.
4. Name 3 drugs for Induction.
5. Name 3 temporary airway devices.
6. Name 3 drugs used in cardiac arrest with doses.
7. Mention 3 methods to confirm ET tube placement.
8. Mention 3 drugs given through ET tube.
9. What is Cushing triad?
10. What is Virchow's triad?

[LH 0815]

AUGUST 2015

Sub. Code: 1023

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR

PAPER III – AMBULANCE EQUIPMENTS

Q.P. Code: 801023

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Electrophysiology of 12 leads ECG.
2. General Management of poisoning in Emergency Department.
3. Indication, Premedications, Complications of blood transfusion in Emergency room.

II. Write notes on:

(8 x 5 = 40)

1. Esophageal – Tracheal combitube, draw and elaborate on its functions.
2. Clinical procedure for difficult airway.
3. Ambulance and its power supply.
4. Vital sign measurement in Emergency Room.
5. Pathophysiology of wound healing.
6. Role of waveform capnography in intubation.
7. Spine immobilization.
8. Arteriovenous hemofiltration.

III. Short answers on:

(10 x 3 = 30)

1. Clinical features of Hypocalcaemia.
2. Write a shot on AED.
3. Post - intubation care.
4. Pericardiocentesis.
5. Pulse oximetry.
6. Parts of Dialysis machine.
7. Mechanism of Nebulizer function.
8. Infant incubator.
9. Draw and label a Endotracheal tube.
10. Needle thoracocentesis.

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PAPER III – AMBULANCE EQUIPMENTS

Q.P. Code: 801023

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Method and indication of Rapid sequence intubation.
2. Write a note on modern defibrillators. Mention its physiology, Functions, options and indications of defibrillator in Emergency Department.
3. 30 years Male patient with history of Trauma comes to Emergency Department with C/o Breathlessness. On examination he has hypotension and distended neck vein and muffled heart sounds. What are the differential diagnosis for this patient and explain the clinical picture, investigation and management of the patient?

II. Write notes on:

(8 x 5 = 40)

1. Draw and mark the parts of a BMV, elaborate in its uses.
2. Technique of Naso tracheal suctioning.
3. Metered Dose inhaler.
4. Power generation, Transmission and Distribution in emergency services.
5. Note on medical gases.
6. Blood pressure assessment in Emergency Department.
7. Note on infant warmer.
8. Laryngeal mask Airway.

III. Short answers on:

(10 x 3 = 30)

1. Management of Hypokalemia.
2. High flow oxygen therapy.
3. Indication of ICD.
4. Log roll.
5. Tracheostomy insertion and management.
6. Radiation hazards.
7. What are the drugs given through ET Tube?
8. Transcutaneous pacing.
9. Draw and label the parts of laryngoscope.
10. Phases of wound healing.

[LJ 0816]

AUGUST 2016

Sub. Code: 1023

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR

PAPER III – AMBULANCE EQUIPMENTS

Q.P. Code: 801023

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Mention about General Management of Poisoning.
2. Insertion of Laryngeal mask airway.
3. Write in detail regarding transporting a critically ill patient.

II. Write notes on:

(8 x 5 = 40)

1. Care of intercostal drainage tube during transport.
2. Tracheal suctioning.
3. Compartment syndrome.
4. Care of amputated part for revascularization.
5. Activated charcoal.
6. Types of O₂ Cylinders.
7. Mention the reversible causes of cardiac arrest.
8. Mention the Do's and Don'ts of first aid in snake bite.

III. Short answers on:

(10 x 3 = 30)

1. What is Beck's triad?
2. What is Little Man's sign?
3. Name 3 instruments used for chest tube placement.
4. Name 3 drugs used in Cardiac arrest with doses.
5. Name 6 drugs used in induction agents for endotracheal intubation.
6. How to rule out cause for ventilator troubleshooting?
7. Types of spinal immobilization boards.
8. Needle thoracocentesis.
9. Needle Pericardiocentesis.
10. Needle Cricothyroidotomy.

[LK 0217]

FEBRUARY 2017

Sub. Code: 1023

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR

PAPER III – AMBULANCE EQUIPMENTS

Q.P. Code: 801023

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail regarding Transcutaneous pacing.
2. Write in detail regarding spinal immobilization devices and methods.
3. Methods of Gastric Decontamination and Elimination of poison.

II. Write notes on:

(8 x 5 = 40)

1. Synchronized cardioversion.
2. How to measure compartment pressure?
3. Pulseoximetry.
4. Whole Bowel Irrigation.
5. Management of Epistaxis.
6. Rhabdomyolysis and its Management.
7. Do's and Dont's in first aid management of thermal burns.
8. Log roll.

III. Short answers on:

(10 x 3 = 30)

1. Mention 3 benefits of Head end elevation.
2. Mention 3 complications of Tracheal Suctioning.
3. Name 3 Central Venous access sites.
4. Name 3 Inotropic drugs.
5. Mention 3 uses of adrenaline with their doses.
6. Mention the fluid requirement per day for a child weighing 15 kg.
7. Mention 3 signs of Pelvic Injury.
8. What is Beck's triad?
9. What is Poiseuille's law?
10. What is normal?
 - a) Blood pressure.
 - b) Intracranial pressure.
 - c) Intra abdominal pressure.

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1. Write in detail regarding modern defibrillators. Mention its Physiology, functions, options and indications of Defibrillators.
2. Mention the steps of Endotracheal Intubation in detail.
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II. Write notes on:

(8 x 5 = 40)

1. Mention Antidotes for
 - a) Organophosphorous Compound.
 - b) Opioids
 - c) Benzodiazepine.
 - d) Local Anesthetics
 - e) Paracetamol.
2. Monitoring urine output in all age groups.
3. Crush syndrome.
4. Propofol infusion syndrome.
5. Spine Immobilization.
6. Gastric Lavage.
7. Types of O₂ Cylinders.
8. List out the life threatening conditions associated with thoracic trauma.

III. Short answers on:

(10 x 3 = 30)

1. Draw diagram and label the parts of Non rebreathing mask.
2. Draw diagram and label parts of Central Venous Triple Lumen Catheter.
3. Draw diagram and label the parts of vertebra.
4. Name 3 drugs for Induction.
5. Name 3 temporary airway devices.
6. Name 3 drugs used in cardiac arrest with doses.
7. Mention 3 methods to confirm ET tube placement.
8. Mention 3 drugs given through ET tube.
9. What is Cushing triad?
10. What is Virchow's triad?

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY**THIRD YEAR****PAPER III – AMBULANCE EQUIPMENTS****Q.P. Code: 801023****Time: Three Hours****Maximum: 100 Marks****Answer all questions****I. Elaborate on:****(3 x 10 = 30)**

1. Define triage. Mention the different color coding used for triaging in emergency department. Write a note on disaster triage.
2. Mention 4 vital parameters monitoring in ED. Mention the different techniques and principles of BP monitoring.
3. Mention different personnel protection equipment's used in emergency department. Write a note on biodegradable waste disposal in ED.

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

1. Mention 3 spinal immobilization devices. Explain in detail regarding spine board with diagram, procedure of application and its uses.
2. Mention the technique of lumbar puncture. Write 2 uses and complications of LP.
3. Explain the technique of umbilical vein catheterization.
4. Indications and contraindications of splints and casts.
5. Gastric lavage - techniques, Indications and contraindications.
6. Different methods of wound stitching.
7. Mention three absorbable and non-absorbable sutures. Write in detail its uses, advantages and disadvantages of any two in each.
8. Mention the types of vehicles used in emergency medical services.

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

1. Mention two indications for log roll. Write about the steps of log roll.
2. Expand AED. Mention the paddle placement in AED.
3. Pneumatic anti shock garment (PASG) - Indications, contraindications and technique.
4. Pelvic compression distraction test.
5. Expand AMBU and mention two uses.
6. Write normal values (a) ICP (b) Blood pressure (c) CVP
7. Mention three drugs given through endotracheal tube.
8. Name three medical gases.
9. Draw a nebulizer and mention its parts.
10. Mention three poisons that cause bradycardia.
