

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

THIRD YEAR

PAPER II – EMERGENCY SURGERY AND EMERGENCY SURGICAL SERVICES

Q.P. Code: 801027

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. 30 years male patient presented to emergency department with alleged history of trauma. History of vomiting present. His BP 90/60mmhg, HR 95/min and saturation 95%.GCS 5/15.
 - a) Mention 5 components of primary survey. Write about GCS score.
 - b) Mention 5 specific interventions that should be done for the above patient.
2. Define Rapid sequence induction. Give six indications of RSI. Mention the steps of RSI. Write a note on cricoid pressure.
3. Draw skin anatomy. Write about classification of burns. Write 5 steps in management of burns.

II. Write notes on:

(8 x 5 = 40)

1. Write the causes, signs and management of acute appendicitis.
2. Define spinal anaesthesia. Draw the anatomy of subarachnoid space. Mention any 2 drugs used in spinal anaesthesia.
3. Write the clinical features of flail chest and the immediate management of flail chest.
4. Describe the procedure of cricothyroidectomy.
5. 50 years old man while having food in the restaurant had a sudden choking event. Write the maneuver to relieve the choking. How will you manage choking in a 2year old child?
6. Mention 5 indications for tracheostomy in the emergency department.
7. Write a note on local anaesthesia.
8. Write about the classification of wounds.

III. Short answers on:

(10 x 3 = 30)

1. Write 3 differences between gastric and duodenal ulcer.
2. Mention 3 causes of upper GI bleed.
3. Mention the radiological feature of duodenal perforation. Write 2 procedures to be done by emergency medicine technician in perforation.
4. Write 3 clinical features of acute pancreatitis?
5. Write 3 cardinal features of cardiac tamponade.
6. Write Modified Parkland formula.
7. Write the clinical features of torsion testis.
8. Mention 3 complications of inguinal hernia.
9. Define FAST and its two indications.
10. Mention three complications of internal jugular cannulation.

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Q.P. Code: 801027

Time: Three Hours

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Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Mention any 5 types of regional anesthesia. Write the anatomy of spinal cord. Mention the steps of spinal anesthesia. Mention 2 drugs that can be given in the sub arachnoid space.
2. Draw skin anatomy. Write about classification of burns. Write 5 steps in management of burns.
3. Write the causes of cord prolapse. Write the pathophysiology of cord prolapse. How will you identify cord prolapsed? Write any 3 maneuvers in the pre-hospital management of cord prolapse.

II. Write notes on:

(8 x 5 = 40)

1. Write the causes, signs and management of Torsion of testis.
2. Write 5 differences between gastric and duodenal ulcer.
3. Write the clinical features of tension pneumothorax and the immediate management of tension pneumothorax.
4. Mention 5 different types of abdominal incision.
5. Write the 5 components of primary survey.
6. Mention the 6 steps of rapid sequence induction. Write 2 indications for rapid sequence induction.
7. Mention 5 steps of crush injury management of hand in ED.
8. Write 5 indications for tracheostomy.

III. Short answers on:

(10 x 3 = 30)

1. Mention 3 indications for Heimlich Maneuver.
2. Mention 3 surgical emergencies
3. What is FAST? Write 2 indications for FAST in emergency department.
4. What is upper GI bleed?
5. MANTREL score.
6. Mention any 3 Drugs used for local anesthesia.
7. Write Modified Parkland formula.
8. Mention any 3 drugs given for pain management of renal colic.
9. Write any 3 indication for intercostal drainage.
10. Describe the anatomy of Internal Jugular Vein.

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Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Write in detail on Peritonitis – causes, signs, symptoms and management.
2. En list the injuries anticipated in a case of penetrating abdominal trauma and the management in general.
3. Differential Diagnosis in a trauma victim complaining of difficulty in breathing with detailed explanation of presenting signs, symptoms and management from the pre hospital level.

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

1. Management of peptic ulcer.
2. Cholecystitis.
3. Haematuria.
4. Intestinal Perforation.
5. Diaphragmatic Rupture.
6. Classify different types of burns.
7. Compartment syndrome.
8. Portal Hypertention – causes, signs and symptoms and management.

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

1. Clinical features commonly associated with Intra abdominal Haemorrhage.
2. What in meant by Ranson's criteria?
3. In suspected liver injuries following trauma, what is the ideal initial investigation of choice? How would you manage this patient?
4. Name the different types of shock.
5. Write about the Electrolyte composition of Ringer lactate.
6. How is Anion gap calculated? What is the normal Anion gap?
7. In an unresponsive pt, what are the initial diagnosis in the prehospital level?
8. How will you record blood pressure of a patient?
9. Calculate the amount of fluid to be given for a 10yr old child with 30% burns surface area.
10. What are the life threatening causes in a pt with chest injury?

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Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Give a detailed description of the anatomy of the spleen, write a brief note on (a) Rupture of spleen (b) Splenic injuries.
2. Define shock. Enumerate the types of shock and discuss any 1 type of shock in detail including etipathogenesis and management.
3. Discuss in detail the various airway injuries in a patient with steering wheel injury.

II. Write notes on:

(8 x 5 = 40)

1. Differentiate between Gastric ulcer and Duodenal ulcer.
2. Process of healing of a closed wound along with factors associated with it.
3. Haemorrhoids.
4. Torsion of Testis.
5. Tetanus.
6. Gastric ulcer Vs Duodenal ulcer.
7. Hospital waste disposal.
8. Secondary survey.

III. Short answers on:

(10 x 3 = 30)

1. OPA.
2. Adrenaline.
3. Compartment syndrome.
4. Types of shock.
5. Defibrillation.
6. Crash cart.
7. Handwashing technique.
8. What are the principles involved in disaster nursing?
9. Define sterlisation.
10. Triage.

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Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Write the differential diagnosis of Acute Abdomen and detail on any two of them.
2. Write in detail about the causes, signs, symptoms and management of Intestinal Obstruction.
3. How will you manage a 44 yr old male patient presenting to the Emergency with upper GI bleed?

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

1. Blunt Trauma injuries to Abdomen.
2. Classify different types of burns.
3. Acute Appendicitis.
4. Ovarian cyst.
5. Classify different types of wounds.
6. Renal Calculi.
7. Investigation procedures of choice in Abdominal Trauma.
8. Acute Pancreatitis.

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

1. What are the first management priorities in a case of pelvic fracture?
2. Symptoms of hypoglycaemia.
3. Clinical features of pulmonary embolism.
4. What is Heimlich's manouver?
5. Blood groups.
6. Adenosine.
7. Illustrate with a diagram the calculation of burns % in an adult patient.
8. Personal protective environment.
9. Glasgow coma scale.
10. Thomas splint.

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Q.P. Code: 801027

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. 50 years old male patient presented to the emergency department with the alleged history fall from tree of about 30 feet. On examination his HR is 150/min, BP is 80 systolic and GCS is 15/15. Mention 4 skeletal injuries associated with fall from height. Mention about the primary assessment and resuscitation for the above patient. Mention the 3 mandatory trauma series X-ray.
2. Define Burns. Write about the classification of burns. Mention the steps in the management of a patient with 50% burns.
3. Describe about the types of wounds. Mention about the pathophysiology and stages of wound healing. Write about cleaning of wounds.

II. Write notes on:

(8 x 5 = 40)

1. Mention 5 life threatening chest injuries in trauma and write about the one immediate management of each.
2. Draw the cross section of spinal cord and its layers. Mention 3 drugs used in spinal anaesthesia.
3. Write a note on managing choking episode in an adult and child.
4. Define rapid sequence induction. Mention the steps of rapid sequence induction.
5. Mention etiology and management of acute cholecystitis.
6. Mention and define 5 different types of hernia.
7. Mention five differences between upper and lower GI bleed.
8. Mention an indication for needle thoracocentesis. Write the steps of needle thoracocentesis.

III. Short answers on:

(10 x 3 = 30)

1. Mention 3 components of Becks triad.
2. Mention three drugs used for induction of anaesthesia.
3. What is Cullen's sign?
4. Mention three causes of hypoglycaemia.
5. Mention 3 indications of cricothyroidectomy.
6. Management of flail chest.
7. Mention 3 causes of acute retention of urine.
8. Mention 3 signs of acute appendicitis.
9. Mention three clinical feature of tension pneumothorax.
10. Mention 3 complication of acute pancreatitis.

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

[LR 1220]

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

Sub. Code: 1027

**BACHELOR IN ACCIDENT AND EMERGENCY CARE TECHNOLOGY
THIRD YEAR – (Regulation from 2014-2015)
PAPER II – EMERGENCY SURGERY & EMERGENCY SURGICAL SERVICES
Q.P. Code: 801027**

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. 50 years old Male patient presented to the Emergency Department with the alleged history fall from tree of about 30 feet. On examination his HR is 150/min, BP is 80 Systolic and GCS is 15/15. Mention 4 Skeletal Injuries associated with fall from height. Mention about the Primary Assessment and Resuscitation for the above Patient. Mention the 3 mandatory Trauma series X-Ray.
2. Define Burns. Write about the classification of Burns. Mention the steps in the management of a patient with 50% Burns.
3. Describe about the types of Wounds. Mention about the Pathophysiology and stages of Wound Healing. Write about Cleaning of Wounds.

II. Write notes on:

(8 x 5 = 40)

1. Mention 5 life Threatening Chest Injuries in Trauma and write about the one immediate Management of each.
2. Draw the Cross section of Spinal Cord and its Layers. Mention 3 drugs used in Spinal Anaesthesia.
3. Write a note on managing Choking Episode in an Adult and Child.
4. Define Rapid Sequence Induction. Mention the steps of Rapid Sequence Induction.
5. Mention etiology and management of Acute Cholecystitis.
6. Mention and define 5 different types of Hernia.
7. Mention five differences between Upper and Lower GI Bleed.
8. Mention an indication for Needle Thoracocentesis. Write the steps of Needle Thoracocentesis.

III. Short answers on:

(10 x 3 = 30)

1. Mention 3 components of Becks Triad.
2. Mention three drugs used for induction of Anaesthesia.
3. What is Cullen's sign?
4. Mention three causes of Hypoglycaemia.
5. Mention 3 indications of Cricothyroidectomy.
6. Management of Flail Chest.
7. Mention 3 causes of Acute Retention of Urine.
8. Mention 3 signs of Acute Appendicitis.
9. Mention three clinical feature of Tension Pneumothorax.
10. Mention 3 complication of Acute Pancreatitis.

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

[AHS 0122]

JANUARY 2022

Sub. Code: 1027

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR – (Regulation from 2014-2015)

PAPER II – EMERGENCY SURGERY & EMERGENCY SURGICAL SERVICES

Q.P. Code: 801027

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Acute Pancreatitis Disease,
 - a) Definition, Causes, Risk factors, diagnostic findings and clinical manifestation of acute pancreatitis.
 - b) Medical and surgical management of acute pancreatitis.
2. Burns,
 - a) Definition, Types and classification, Method of assessment of burns.
 - b) Fluid calculation and management of burns.
3. Interstitial Cystitis / Bladder pain Syndrome.

II. Write notes on:

(8 x 5 = 40)

1. Endocarditis.
2. Dialysis.
3. Write in detail about Urinary Catheterization.
4. Renal Abscess.
5. Polycythemia.
6. Phimosiis.
7. Bladder cancer.
8. Bone marrow Aspiration.

III. Short answers on:

(10 x 3 = 30)

1. Management for DVT- Deep Vein Thrombosis.
2. Multiple myeloma.
3. Aplastic Anemia.
4. Pulse oximetry.
5. Urethral stricture.
6. Epididymitis.
7. Principles of Dialysis.
8. Acute Pyelonephritis.
9. Cardiomegaly.
10. Neutropenia.

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

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 1027

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

THIRD YEAR – (Regulation from 2014-2015)

PAPER II – EMERGENCY SURGERY AND EMERGENCY SURGICAL SERVICES

Q.P. Code: 801027

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Mention any 5 types of regional anesthesia. Write the anatomy of spinal cord. Mention the steps of spinal anesthesia. Mention 2 drugs that can be given in the sub arachnoid space.
2. Write in detail about the causes, signs, symptoms and management of Intestinal Obstruction.
3. Note on skin anatomy. Describe the classification of Burns and how will you manage a burns patient in Emergency Department.

II. Write notes on:

(8 x 5 = 40)

1. Compartment syndrome.
2. Adenosine.
3. Defibrillation.
4. Classify different types of wounds.
5. Management of flail chest.
6. Acute Appendicitis.
7. Hernia.
8. Triage.

III. Short answers on:

(10 x 3 = 30)

1. Maneuver for choking.
2. Causes of rectal bleeding.
3. Multiple myeloma.
4. Cricothyrotomy.
5. Mention three clinical features of Tension Pneumothorax.
6. Mention three differences between Gastric and Duodenal Ulcer.
7. Mention six steps of rapid sequence induction.
8. Suprapubic puncture.
9. Epididymitis.
10. Complications of central venous access.

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

[AHS 0423]

APRIL 2023

Sub. Code: 1027

**B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
THIRD YEAR – (Regulations 2014-2015 & 2018-2019 onwards)
PAPER II – EMERGENCY SURGERY AND EMERGENCY SURGICAL SERVICES
Q.P. Code: 801027**

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe about the types of Wounds. Mention about the pathophysiology and stages of Wound healing. Write about cleaning of Wounds.
2. Define Burns. Explain the classification and management of Burns.
3. Write in detail about the causes, signs, symptoms and management of Intestinal Obstruction.

II. Write notes on:

(8 x 5 = 40)

1. Mention five Life Threatening Chest Injuries in Trauma and write about the one immediate Management of each.
2. Acute Appendicitis.
3. Torsion of Testis.
4. Regional Anaesthesia.
5. Triage.
6. Head injury.
7. Mention five difference between Upper and Lower GI Bleeding.
8. Write a note on Succinyl choline.

III. Short answers on:

(10 x 3 = 30)

1. Causes of rectal bleeding.
2. Maneuver for chocking.
3. Cricothyroidotomy.
4. Complications of central venous access.
5. Mention three causes of Hypoglycemia.
6. Renal Calculi.
7. Mention six steps of Rapid Sequence Induction.
8. Crash cart.
9. Types of shock.
10. Adrenaline.

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY
THIRD YEAR – (Regulations 2014-2015 & 2018-2019 onwards)
PAPER II – EMERGENCY SURGERY AND EMERGENCY SURGICAL SERVICES
Q.P. Code: 801027

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. a) Discuss etiology of Acid Peptic Disease.
b) Mention three differences between Gastric and Duodenal ulcer.
c) Management of 50 years old alcoholic presenting with Acute Hematemesis to Emergency Department with heart rate of 120/min and blood pressure of 80 systolic.
d) Mention the type of Shock the patient is in and write five initial management protocols in Emergency Department.
2. Write five indications for Intercostal Drain (ICD) in Emergency Department. Describe the technique of Placing Intercostal drain. Mention four complications of Intercostal drain.
3. A 25 years old female patient with sudden onset abdominal pain presents to the Emergency Department. Mention five differential diagnosis of this patient. How will you investigate and manage an ectopic pregnancy?

II. Write notes on:

(8 x 5 = 40)

1. Define Flail chest. Discuss about the management of Flail chest.
2. Mention ten complications of Spinal Anaesthesia.
3. Mention the components and scoring of GCS.
4. Mention four complications of tracheostomy and write a note of Tracheostomy care.
5. Mention three etiology and management of Acute Appendicitis.
6. Classify Burns. Write about the management of 40% burns in Emergency Department.
7. Approach to a Crush injury patient of lower limb in ED.
8. Classify Wounds. Write about the management of lacerated wound in emergency.

III. Short answers on:

(10 x 3 = 30)

1. Mention three complications of Haemothorax.
2. Layers of closure of midline abdominal incision.
3. Mention three causes of upper GI bleed.
4. Classify local Anaesthesia. Mention one example in each.
5. Mention three indications of Cricothyroidectomy.
6. What is Heimlich maneuver?
7. Mention three causes of Acute Retention of Urine.
8. Mention three causes of Acute Cholecystitis.
9. Mention six steps of Rapid sequence induction.
10. Mention three complications of Acute Pancreatitis.

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

[AHS 0424]

APRIL 2024

Sub. Code: 1027

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

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

PAPER II – EMERGENCY SURGERY AND EMERGENCY SURGICAL SERVICES

Q.P. Code: 801027

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. A 35 years male patient admitted to Emergency department with alleged history of trauma. H/O of vomiting, his BP 90/60mmHg, HR 95/min and saturation 95%, GCS 5/15.
 - a) Mention five components of primary survey. Write about GCS score.
 - b) Mention five specific interventions that should be done for the above patient.
2. Define Burns. Discuss in detail its types, classification, fluid calculation and management of Burns.
3. Define Intestinal Obstruction and discuss its causes, signs and symptoms, management of Intestinal Obstruction.

II. Write notes on:

(8 x 5 = 40)

1. Blunt Trauma injuries to Abdomen.
2. Renal Calculi.
3. Torsion of Testis.
4. Define Rapid Sequence Induction. Mention the steps of Rapid Sequence Induction.
5. Complications of Spinal Anaesthesia.
6. Acute Appendicitis.
7. Types of Chest Wall injury in accidental wall collapse. Discuss the treatment of Multiple Rib fracture.
8. Differentiate between Gastric ulcer and Duodenal ulcer.

III. Short answers on:

(10 x 3 = 30)

1. Compartment syndrome.
2. Causes of Melena.
3. Crush injury.
4. Mention three causes of Acute Retention of Urine.
5. Mention three indications of cricothyrotomy.
6. Stages of Wound Healing.
7. Complications of central venous access.
8. Principles of local anesthesia in ED.
9. Hematuria.
10. Thomas splint.

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

[AHS 0125]

JANUARY 2025

Sub. Code: 1027

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

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

PAPER II – EMERGENCY SURGERY AND EMERGENCY SURGICAL SERVICES

Q.P. Code: 801027

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Draw the anatomy of spinal cord. Mention the types of regional anaesthesia. Explain the steps of spinal anaesthesia. What are all the drugs that can be given in the spinal anaesthesia?
2. Explain about classifications of Burns. Write the First aid management of Burns.
3. List out the types of Accidental injuries. Explain about head injury and its management.

II. Write notes on:

(8 x 5 = 40)

1. Wound healing process.
2. Types of Anaesthesia.
3. Acute Pancreatitis.
4. Gastric ulcer.
5. Thoracic injuries.
6. Tracheostomy.
7. Intercostal Drainage.
8. Skills of intubation in a Mannequin.

III. Short answers on:

(10 x 3 = 30)

1. Mention four clinical features of Intra-abdominal haemorrhage.
2. Mention the types of Shock.
3. Electrolyte composition of Ringer lactate.
4. Parkland's formula.
5. What is Defibrillation?
6. Define sterilization.
7. Mention the symptoms of Hypoglycaemia.
8. Mention the types of Blood groups.
9. Types of Hernia.
10. Define Cullen's sign.

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

[AHS 0425]

APRIL 2025

Sub. Code: 1027

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

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

PAPER II – EMERGENCY SURGERY AND EMERGENCY SURGICAL SERVICES

Q.P. Code: 801027

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. a) Define Rapid Sequence Induction.
b) Mention the steps of Rapid Sequence Induction. Write four drugs used for induction in Emergency Department.
c) Mention its mode of action and its side effects.
2. a) A 25 years male while riding the two-wheeler hit against a tree, he was brought to the Emergency Department, His GCS is 5/ 15, BP 90/ 60mmHg and Pulse rate of 120/ min. Write about the primary and secondary assessment in the above patient.
b) Write a note on GCS(Glasgow Coma Scale).
3. a) Describe the etiology, signs and symptoms of appendicitis.
b) Draw the different position of appendix.
c) Mention about the Mantrel scoring.
d) Write about initial management of acute appendicitis in ED.

II. Write notes on:

(8 x 5 = 40)

1. Explain the steps of Pericardiocentesis.
2. Draw the Anatomy of Skin and classify Burns.
3. Cardiac tamponade.
4. Intercostal drainage.
5. Cholecystitis.
6. Upper GI bleed.
7. Tracheostomy.
8. Write about the causes and management of Ureteric colic.

III. Short answers on:

(10 x 3 = 30)

1. Write the Modified Parkland formula. Write about fluid management for 40% burns.
2. Mention any three complications of Blood Transfusion.
3. Mention the steps of Needle Thoracocentesis.
4. Mention three differences between Gastric and Duodenal ulcer.
5. What is Murphy's sign in acute Cholecystitis?
6. Mention three complications of Hernia.
7. Mention three uses of Oropharyngeal airway in ED.
8. What is Cullen's sign?
9. Mention three clinical features of Massive Hemothorax.
10. Mention three etiology of Ectopic pregnancy.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 1027

B.Sc. ACCIDENT AND EMERGENCY CARE TECHNOLOGY

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

PAPER II – EMERGENCY SURGERY AND EMERGENCY SURGICAL SERVICES

Q.P. Code: 801027

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe in detail the principles of regional anaesthesia and its complications.
2. Discuss the management of penetrating abdominal injury.
3. Discuss the stages of Wound healing and factors affecting it.

II. Write notes on:

(8 x 5 = 40)

1. Classification and management of surgical wounds.
2. Post-anaesthesia recovery care.
3. Burns-fluid resuscitation formulas.
4. Foreign body airway obstruction-adult vs pediatric.
5. Suture materials absorbable and non-absorbable.
6. Acute intestinal obstruction-radiological signs.
7. Emergency laparotomy – Indications.
8. Trauma triage and prioritization.

III. Short answers on:

(10 x 3 = 30)

1. Mallampati classification.
2. Local Anaesthetic Toxicity (LAST).
3. Care of chest tube drainage.
4. Degrees of wound contamination.
5. Abdominal evisceration – initial management.
6. Steps in hand scrubbing before surgery.
7. Pain assessment scales.
8. Indications for emergency exploratory laparotomy.
9. Needle and suture size selection.
10. Management of electrical burns.
