

[LD 0212]

AUGUST 2013

Sub. Code:1421

B.Sc., CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR

PAPER I – INTRODUCTION TO SURGERY & CSSD

Q.P. Code: 801421

Time : Three hours

Maximum : 100 Marks

Answer all questions

I. Elaborate on

3 x 10 = 30

1. Principles of sterilization by ethylene oxide
2. Indications and principles of the use of Intra-aortic Balloon Counter pulsation
3. Diagnosis and management of common acid base disorders

II. Write Notes on

8 x 5 = 40

1. Safe disposal of “sharps” in the operating room
2. External cardiac massage
3. Causes & management of hyperkalemia
4. Mechanism of action & uses of adrenaline
5. Importance of “activated clotting time” to the perfusionist
6. Mitral stenosis
7. Heparin for cardiopulmonary bypass
8. Principles of defibrillation after cardiac arrest

III. Short Answers on

10 X 3 = 30

1. Sinus rhythm
2. Positive end expiratory pressure
3. Antibiotic sensitivity testing
4. Platelet concentrate & its uses
5. Prevention of cross infection in the intensive care unit
6. Clinical features and management of anaphylactic reaction
7. Methylprednisolone and its uses
8. Causes & management of pneumothorax
9. Blood coagulation factors & their importance
10. Protamine reactions

[LE 0212]

FEBRUARY 2014

Sub. Code: 1421

B.Sc., CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR

PAPER I – INTRODUCTION TO SURGERY & CSSD

Q.P. Code: 801421

Time: Three hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on

3 x 10 = 30

1. Principles of postoperative care after Coronary Artery Bypass Graft Surgery
2. Sterilization by Ionising Radiation
3. Principles of skin preparation for major surgery

II. Write Notes on

8 x 5 = 40

1. Advanced cardiac life support
2. Anticoagulation for cardiopulmonary bypass
3. Causes & management of ventricular fibrillation
4. Estimation of “body surface area” and its clinical importance
5. Blood groups and cross matching of blood for major surgery
6. Causes & management of intraoperative oliguria
7. Diagnosis & management of metabolic acidosis
8. Principles of invasive arterial blood pressure monitoring

III. Short Answers on

10 X 3 = 30

1. Ventricular premature contractions
2. Fresh frozen plasma
3. Disinfection of re useable temperature probes
4. Importance of hand washing in the intensive care unit
5. Left atrial pressure monitoring
6. Hepatitis B virus
7. Diagnosis and management of heparin resistance
8. Triple lumen venous catheter & its uses
9. Air embolism
10. Importance of pulse oximetry in the intensive care unit

[LF 0212]

AUGUST 2014

Sub. Code:1421

B.Sc., CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR

PAPER I – INTRODUCTION TO SURGERY & CSSD

Q.P. Code: 801421

Time: Three hours

Maximum : 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about the preoperative and the postoperative care of surgical patients.
2. Define and classify hemorrhage. Elaborate on its management.
3. List down 5 nosocomial infections. Write the policy regarding decontamination of articles and environment.

II. Write Notes on:

(8 x 5 = 40)

1. Sterilization.
2. Importance of teamwork.
3. Inflammatory process.
4. Abscess.
5. Commonly used drugs and actions.
6. Aims and objectives of CSSD.
7. Intraoperative reasons for stress on the surgical team
8. CSSD work practice.

III. Short Answers on:

(10 x 3 = 30)

1. Bactericidate test.
2. Tourniquet.
3. Blood pressure.
4. Common terms used in cardiology.
5. Methods of wrapping instruments for sterilization.
6. Dry heat sterilization.
7. Cleaning of catheters and tubes.
8. Compatible articles for ETO sterilization.
9. H₂O₂ sterilization.
10. Disinfection.

[LG 0215]

FEBRUARY 2015

Sub. Code:1421

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR

PAPER I – INTRODUCTION TO SURGERY AND CSSD

Q.P. Code: 801421

Time: Three Hours

Maximum : 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Expand CSSD. Write the aims and objectives of CSSD. Explain its work practice in detail.
2. Elaborate on the postoperative complications.
3. Write the role of a surgeon, importance of teamwork and anticipating the needs of surgeon.

II. Write Notes on:

(8 x 5 = 40)

1. Tracheostomy.
2. Infection control.
3. Disinfection of hospital equipment and environment.
4. Types of sterilization.
5. Wound healing.
6. Types of incision and their indications.
7. Postoperative care of surgical patients.
8. Sterile techniques and surgical asepsis.

III. Short Answers on:

(10 x 3 = 30)

1. Types of wounds.
2. Fumigation.
3. Steps in sterilization.
4. Moist heat sterilization.
5. Preparation of neckline and cut down sets.
6. Skin preparation for invasive procedure.
7. Checking vital signs.
8. Endo tracheal intubation.
9. Sterilization by radiation.
10. Types of packs prepared.

[LH 0815]

AUGUST 2015

Sub. Code: 1421

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR

PAPER I – INTRODUCTION TO SURGERY AND CSSD

Q.P. Code: 801421

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. List down the indications of Tracheostomy. Write down the role of a cardiopulmonary perfusion technician to take care of the tube from thereon till extubation.
2. Explain in detail the different types of wounds you know along with their treatment. Briefly describe the process of healing.
3. Significance of CSSD department in any hospital.

II. Write notes on:

(8 x 5 = 40)

1. Cross infection control.
2. Principles of Sterilisation.
3. Amiodarone.
4. Tests for prevacuum porous load sterilisers.
5. Write on disinfection of used filters.
6. Proper cleaning techniques for glass ware, syringes and needles.
7. How will you prepare for an IJV line?
8. Classification of Haemorrhage, signs and symptoms of each type.

III. Short answers on:

(10 x 3 = 30)

1. What is meant by Biopsy?
2. Define Pulse rate. What is the normal pulse rate?
3. What are the factors affecting the effectiveness of chemical disinfectants?
4. Sterilisation of endoscope.
5. List down some of the uses of detergents commonly used along with its indication.
6. What are the different types of tourniquet commonly used?
7. What is the normal Temperature? Name the device used for measuring it.
8. What is an ECG?
9. What is H₂O₂ gas plasma vapour sterilisation?
10. What is inflammation?

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY**THIRD YEAR****PAPER I – INTRODUCTION TO SURGERY AND CSSD***Q.P. Code: 801421***Time: Three Hours****Maximum: 100 Marks****Answer all questions****I. Elaborate on:****(3 x 10 = 30)**

1. List down the principles of sterilisation. What are the different types of sterilisation? Explain briefly.
2. Explain in detail the importance of team work in an Operation theatre. The various stresses that could arise in the middle of the procedure.
3. What are the indications of inserting a central line? How will you prepare for the procedure? Steps to be followed after the procedure.

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

1. Principles of infection control.
2. Mechanism of action of microbicidal action of Chemical disinfectants.
3. Nor adrenaline.
4. Disinfection of hospital environment.
5. How will you prepare skin for invasive procedures?
6. Proper techniques for preparation of packs, wrapping them and indicating the stamping date.
7. How will you prepare for an femoral line?
8. Aseptic filtration of liquids and air liquids.

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

1. What is meant by Incision and drainage?
2. Tests for efficiency of sterilisation?
3. What are the indications of atropine?
4. Integrity test application of membrane filters.
5. List down some of the uses of detergents commonly used along with its indication.
6. What is fumigation?
7. How will you disinfect skin and mucous membrane?
8. Define asepsis.
9. What is ETO gas plasma vapour sterilisation?
10. Sterilization of glass syringes.

[LJ 0816]

AUGUST 2016

Sub. Code: 1421

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR

PAPER I – INTRODUCTION TO SURGERY AND CSSD

Q.P. Code: 801421

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. What are the different types of sterilization practiced at CSSD? How are plastic objects Sterilized?
2. Describe the preparation for major surgery and mention the types of surgical incision and its Complications.
3. What are the principles of post operative care after CABG?

II. Write notes on:

(8 x 5 = 40)

1. Types of Hemorrhage and its types.
2. Factors influencing wound healing.
3. Louis Pasteur's contributions to surgery.
4. Advanced cardiac life support.
5. Heart – lung machine.
6. Tests for efficiency of sterilization.
7. Causes of intra-operative oliguria.
8. Mention the types of packs prepared for sterilization.

III. Short answers on:

(10 x 3 = 30)

1. Mention 3 inflammatory disease.
2. Left atrial pressure monitoring.
3. Off-pump coronary bypass heart.
4. Sterilization of glass syringes.
5. What is fumigation?
6. Venous cut-down.
7. Indication of tourniquet.
8. Chemical mediators of inflammation.
9. Management of anaphylactic shock.
10. Antibiotic sensitivity test.

[LK 0217]

FEBRUARY 2017

Sub. Code: 1421

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR

PAPER I – INTRODUCTION TO SURGERY AND CSSD

Q.P. Code: 801421

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Define Nosocomial infection. What are the systems commonly affected and describe the signs, Symptoms and management of each disorder?
2. a) What are types of wound and its causes?
b) Describe the process of wound healing and factors affecting the same?
3. Write pre operative and post operative check lists of major surgical patients. Mention their Importance briefly.

II. Write notes on:

(8 x 5 = 40)

1. Inflammation – causes and cardinal signs.
2. Anticoagulation for bypass surgery.
3. Tracheostomy care.
4. High risk baby care.
5. Tests for efficiency of sterilization.
6. Incision for closed mitral valvotomy with steps of surgery.
7. Normal and abnormal readings of vital signs.
8. Diagnosis and management of metabolic acidosis.

III. Short answers on:

(10 x 3 = 30)

1. Ventricular Arrhythmia.
2. Incision and drainage of parotid abscess.
3. Left atrial pressure monitoring.
4. Fat embolism.
5. What is detergent?
6. Pulse oxymetry and its importance.
7. Name 5 Clinical disinfectants.
8. Fresh frozen plasma.
9. Membrane filters.
10. Fumigation – how it is done?

**B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR**

PAPER I – INTRODUCTION TO SURGERY AND CSSD

Q.P. Code: 801421

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. What are the indications of tracheostomy? Describe the steps and post operative care.
2. What are the steps of cleaning instruments and linnen?
3. Write about different nosocomial infection, what is the hospital policy regarding decontamination of articles and environment?

II. Write notes on:

(8 x 5 = 40)

1. Chemical Disinfection.
2. Types of wound, process of wound healing.
3. Drugs used for stable angina.
4. Surgical Aseptic procedure.
5. Dry heat sterilization.
6. Indications for endo-tracheal intubation.
7. Heart – lung machine.
8. Membrane filters.

III. Short answers on:

(10 x 3 = 30)

1. Ambu bag – parts.
2. Non-stemi.
3. ETO sterilization.
4. Pre operative check list for a CABG patients.
5. Bradycardia.
6. Signs and causes of internal hemorrhage.
7. Three major symptoms of cardiac patient.
8. Indications for ECG.
9. Sterilization for endoscopy.
10. Define asepsis.

**B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR**

PAPER I – INTRODUCTION TO SURGERY AND CSSD

Q.P. Code: 801421

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Define Sterilization. What are the different types of sterilization? Discuss in detail about the process of sterilization by heat.
2. Classify wounds. Describe elaborately the process of wound healing.
3. Briefly describe the methods of infection control and about the hospital policy manual regarding decontamination of articles and rooms.

II. Write notes on:

(8 x 5 = 40)

1. Postoperative care of a surgery (CABG) patient.
2. Enlist the indications of TRACHEOSTOMY.
3. Process of disinfection of used filters.
4. How do you prepare a neck line set?
5. Principles of defibrillator and its use.
6. What is the importance of team work in surgery?
7. Describe the process of assembly and packaging of instruments and gauzes.
8. Application of ionizing radiation in sterilization.

III. Short answers on:

(10 x 3 = 30)

1. Name three incisions and where it is used?
2. What are signs of internal haemorrhage?
3. How do you test the efficiency of filtration?
4. How do you drain an injection abscess?
5. What are the parameters to be monitored in vital signs?
6. Paracetamol – uses, its mechanism of action and side effects.
7. Principles of chemical disinfection.
8. How to prepare the skin for invasive procedure?
9. Method of safe disposal of sharps in the operating room.
10. What are the physical properties of ethylene oxide?

**B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR**

PAPER I – INTRODUCTION TO SURGERY AND CSSD

Q.P. Code: 801421

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about the pre-operative care and post-operative care of a CABG patient.
2. Indications of tracheostomy and its care and the complications.
3. Describe in detail the aims and objectives of CSSD and its work practice and return of equipment.

II. Write notes on:

(8 x 5 = 40)

1. Preparation of cut down set.
2. Assembly and packaging in a CSSD.
3. Mechanism of microbicide action.
4. Disinfection of hospital equipment and environment.
5. Membrane filters.
6. Technique of collection and issue procedure in CSSD.
7. Loading of sterilizer.
8. Open and closed systems of Dry heat sterilization.

III. Short answers on:

(10 x 3 = 30)

1. Signs of inflammation.
2. Name the cellulos and synthetic materials used in chemical disinfection.
3. Per acetic acid – uses.
4. Hydrocortisone – uses.
5. Cleaning of glass ware, syringes and needles.
6. Chemical properties of ethylene oxide.
7. Mechanism of filtration.
8. Importance of personal cleanliness.
9. What are the uses of detergents?
10. Note on endotracheal intubation.

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR

PAPER I – INTRODUCTION TO SURGERY AND CSSD

Q.P. Code: 801421

Time: Three Hours

Maximum: 100 Marks

Answer all questions

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

1. Write in detail about the preoperative and the postoperative care of surgical patients.
2. Significance of CSSD department in hospital.
3. List out the indications of Tracheostomy. Write down the role of a cardiopulmonary perfusion care technician to take care of tube from thereon till extubation.

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

1. History of Surgery.
2. Importance of personal cleanliness and aseptic technique.
3. Waste disposal collection of used items from user area.
4. Principles of sterilization.
5. Infection control.
6. Heat sterilization method.
7. Skin preparation for various invasive procedures.
8. Incision and drainage of abscesses.

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

1. Complications of hemorrhage.
2. Define vital signs. Write its normal values.
3. Sterilization of endoscopes.
4. List down some of the uses of detergents commonly used along with its indication.
5. What are the different types of tourniquet commonly used?
6. How will you disinfect the skin and mucous membrane?
7. Surgical checklist.
8. Common terms used in cardiology.
9. Types of wounds.
10. What is inflammation?

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

[LR 1220]

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

Sub. Code: 1421

**BACHELOR IN CARDIO PULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR – (Regulations from 2010-2011 & 2014-2015)
PAPER I – INTRODUCTION TO SURGERY & CSSD
*Q.P. Code: 801421***

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define and classify Haemorrhage. Elaborate on its management.
2. Explain in details of the importance of Team work in an Operation Theatre.
The various Stresses that could arises in the middle of procedure.
3. Expand CSSD. Write aims and objectives of CSSD. Explain its work practice.

II. Write notes on:

(8 x 5 = 40)

1. Process of Wound Healing.
2. Role of Surgeon.
3. Safe disposal of “Sharpe” things in the Operating room.
4. Vital Signs.
5. Skin preparation for various Invasive procedures.
6. Commonly used Drugs and its actions.
7. Tourniquet.
8. Infection Control.

III. Short answers on:

(10 x 3 = 30)

1. Types of Wounds.
2. Materials used for Wrapping.
3. Plasma Sterilization.
4. Preparation of Neck line and Cut down sets.
5. Types of Packs prepared.
6. What are the factors affecting the effectiveness of Chemical Disinfectants?
7. What is Inflammation?
8. Sterilization of Glass Syringes.
9. What is Fumigation?
10. Tracheostomy.

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

[AHS 0122]

JANUARY 2022

Sub. Code: 1421

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR – (Regulations from 2010-2011 & 2014-2015)

PAPER I – INTRODUCTION TO SURGERY & CSSD

Q.P. Code: 801421

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Classify Haemorrhage according to the site of bleeding. Elaborate the management of massive haemetemesis.
2. What is CSSD? What are the aims of CSSD and explain its working modalities.
3. Describe the different types of wounds? What are the factors which affect wound healing?

II. Write notes on:

(8 x 5 = 40)

1. Advanced cardiac life support.
2. Types of packs prepared for sterilization.
3. Disinfection of hospital environment.
4. Fumigation.
5. Postoperative care of surgical patient.
6. Surgical asepsis.
7. Types of incisions.
8. Signs of inflammation.

III. Short answers on:

(10 x 3 = 30)

1. Tourniquet.
2. Blood pressure measurement.
3. Name three cardiac drugs.
4. Cleaning of catheters and tubes.
5. How do you check vital signs.
6. Endotracheal intubation.
7. Causes of intra operative oliguria.
8. Venepuncture – indications.
9. Indications for CABG.
10. How is mucous membrane sterilized.

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

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 1421

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY

THIRD YEAR – (Regulations from 2010-2011 & 2014-2015)

PAPER I – INTRODUCTION TO SURGERY & CSSD

Q.P. Code: 801421

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What are the types of wounds and its causes? Describe the process of wound healing and factors affecting the same.
2. Define Sterilization. What are the different types of sterilization? Describe in detail about the process of heat sterilization.
3. What are the indications of Endotracheal intubation? Describe the steps and post operative care.

II. Write notes on:

(8 x 5 = 40)

1. Importance of team work.
2. CSSD work practice.
3. Nosocomial infections.
4. Surgical Aseptic techniques.
5. Types of incision and its indications.
6. Aims and Objectives of CSSD.
7. Pre operative check list for surgical patients.
8. Proper techniques for preparation for packs, wrapping them and indicators used.

III. Short answers on:

(10 x 3 = 30)

1. Cleaning of catheters and tubes.
2. Indications of tourniquet.
3. Define Pulse rate. Write normal pulse rate.
4. Indications of tracheostomy.
5. What are the equipments used in wards?
6. Preparation of neckline sets.
7. Define Fumigation.
8. Importance of Pulse Oximetry in Intensive care unit.
9. Common terms used in cardiology.
10. Cutdown sets.

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

[AHS 0423]

APRIL 2023

Sub. Code: 1421

**B.Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)**

PAPER I – INTRODUCTION TO SURGERY & CSSD

Q.P. Code: 801421

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What are the different types of Sterilization practiced at CSSD? How are endoscopies sterilized?
2. Define Nosocomial infection. What are the systems commonly affected and describe the signs, symptoms and management of each disorder?
3. What are different types of wounds and its causes? Describe the process of wound healing and factors affecting the same.

II. Write notes on:

(8 x 5 = 40)

1. Describe safe disposal of sharp instruments.
2. Describe the procedure of CPR.
3. Triple Lumen catheter and its uses.
4. Importance of surgical team work.
5. Causes of inflammation.
6. Mention the reasons of intra operative stress.
7. Method of wrapping instruments for sterilization.
8. Sterile techniques in operating room.

III. Short answers on:

(10 x 3 = 30)

1. How are linen sterilized?
2. CVP and its importance.
3. Moist heat sterilization.
4. Endotracheal intubation.
5. Define Fumigation.
6. Chemical mediators of inflammation.
7. Off pump CABG.
8. Louis Pasteur contributions to surgery.
9. Causes of Intra operative oliguria.
10. Venous – cut down.

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 1421

**B.Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)
PAPER I – INTRODUCTION TO SURGERY & CSSD**

Q.P. Code: 801421

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(30 x 1 = 30)

1. Sterilization by Ionizing Radiation.
2. Principles of Skin preparation for Invasive procedures.
3. Significance of CSSD in Hospital.

II. Write notes on:

(8 x 5= 40)

1. Mechanical Cleaning Apparatus.
2. Role of Surgeon.
3. Incision and drainage of abscess.
4. Vital signs and its importance in management of Shock.
5. Intra operative reasons for stress on the surgical team.
6. Disinfection of hospital equipments and environment.
7. Surgical asepsis.
8. Aims and objectives of CSSD.

III. Write answer on:

(10 x 3 = 30)

1. Disinfection of Re-usable temperature probes.
2. Types of Wrapping.
3. Endotracheal intubation – Definition and Indications.
4. Types of Tourniquets and its uses.
5. Surgical incision – Definition and Types.
6. Wound infection – Definition and Treatment.
7. Dry heat sterilization.
8. Infection control.
9. What is Fumigation?
10. Cut down sets.

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

[AHS 0424]

APRIL 2024

Sub. Code: 1421

**B.Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)
PAPER I – INTRODUCTION TO SURGERY & CSSD
Q.P. Code: 801421**

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

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

1. Define and Classify hemorrhage. Elaborate on its management.
2. Define Infection and measures to control infection. Write in detail about the fumigation procedure.
3. Sterilization and explain about the gaseous chemical sterilization.

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

1. Dry heat sterilization.
2. Wound Infections.
3. Intraoperative reasons for stress on the surgical team.
4. Tracheostomy.
5. Safe disposal of “sharps” in the operating room.
6. Aims and objectives of CSSD.
7. Factors influencing wound healing.
8. Cross Infection Control.

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

1. Define Asepsis.
2. Fat embolism.
3. Moist heat sterilization.
4. What are the different types of tourniquet commonly used?
5. Biopsy.
6. Antibiotic sensitivity test.
7. Types of Wounds.
8. Principles of chemical disinfection.
9. Surgical checklist.
10. Cleaning of catheters and tubes,

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

[AHS 0125]

JANUARY 2025

Sub. Code: 1421

**B.Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)
PAPER I – INTRODUCTION TO SURGERY & CSSD**

Q.P. Code: 801421

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Expand CSSD. Write the aims and objectives of CSSD. Explain its work practice in detail.
2. Define Nosocomial infection. What are the systems commonly affected and describe the signs, symptoms and management of each disorder?
3. Write Pre operative and Post operative check lists of major surgical patients. Mention their importance briefly.

II. Write notes on:

(8 x 5 = 40)

1. What are the indications of inserting a central line? How will you prepare for the procedure? Mention the steps to be followed after the procedure.
2. Safe disposal of “sharps” in the operating room.
3. Postoperative care of Cardiac surgical patients.
4. Proper techniques for preparation of packs, wrapping them and indicating the stamping date.
5. Mechanism of action of Chemical disinfectants.
6. Tracheostomy procedures and its complication.
7. Heparin.
8. Waste disposal collection of used items from user area.

III. Write answer on:

(10 x 3 = 30)

1. How do you drain an injection abscess?
2. What are the parameters to be monitored in viral signs? What is its normal range?
3. What is ETO sterilization?
4. Vene puncture.
5. Management of Anaphylactic shock.
6. Name three incisions and where it is used?
7. What is Fumigation?
8. Pulse oximetry and its importance.
9. Types of Incision.
10. What are the different types of tourniquet commonly used?

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

[AHS 0425]

APRIL 2025

Sub. Code: 1421

**B.Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)
PAPER I – INTRODUCTION TO SURGERY & CSSD**

Q.P. Code: 801421

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What are the indications of Tracheostomy? Describe the procedure and post operative care.
2. How will you pre operatively prepare a patient for major surgery?
3. What is Nosocomial infection? What are the measures taken to prevent it?

II. Write notes on:

(8 x 5 = 40)

1. Importance of team work.
2. Chronic inflammation.
3. Evaluation of disinfectants.
4. How will you sterilize sharp instruments and tubes?
5. High risk baby care.
6. Autoclaving.
7. Define abscess and its management.
8. CSSD work practice.

III. Short answers on:

(10 x 3 = 30)

1. Causes of lacerated wound and its management.
2. Tests for efficiency of Sterilization.
3. Preoperative skin preparation.
4. Sterilization by irradiation – its uses.
5. Checking vitals.
6. Uses of Atropine.
7. Define fumigation.
8. What is ETO sterilization – its uses?
9. What are the different types of cleaning process?
10. Blood Coagulation factors.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 1421

**B.Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY
THIRD YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)**

PAPER I – INTRODUCTION TO SURGERY & CSSD

Q.P. Code: 801421

Time: Three Hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. List down the principles of Sterilization. What are the different types of Sterilization? Explain briefly.
2. Write in detail about the preoperative and the postoperative care of surgical patients.
3. Write about different Nosocomial infections, what is the hospital policy regarding decontamination of articles and environment?

II. Write notes on:

(8 x 5= 40)

1. Types of wound, process of wound healing.
2. External cardiac massage.
3. Causes and management of intraoperative oliguria.
4. Aims and objectives of CSSD.
5. Tracheostomy.
6. Amiodarone.
7. Normal and abnormal readings of vital signs.
8. Membrane filters.

III. Write answer on:

(10 x 3 = 30)

1. Importance of Teamwork.
2. Complications of hemorrhage.
3. Types of Tourniquets and their uses.
4. Materials used for Wrapping.
5. Cleaning of catheters and tubes.
6. Safe disposal of sharp instruments.
7. What is an ECG?
8. Cut down sets.
9. Louis Pasteur contribution to surgery.
10. Tests for efficiency of sterilization.
