

**M.Sc. (NURSING) DEGREE EXAMINATION
SECOND YEAR**

(Regulations for candidates admitted from 2008-2009 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

02 – CRITICAL CARE NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Mr. X, aged 50 yrs brought to the hospital in an unconscious state is admitted in ICU.
 - a) Discuss the various causes of unconsciousness. (5)
 - b) Explain the assessment of Mr. X. (5)
 - c) Elaborate the nursing management of Mr. X. (7)
 - d) Discuss the legal issues in organ donation. (3)
2. Mr. Ram, age 45 yrs is admitted in coronary care unit with the diagnosis of myocardial infarction.
 - a) List down the risk factors of myocardial infarction. (4)
 - b) Explain the pathophysiology of myocardial infarction. (5)
 - c) Detail the medical management of Mr. Ram. (5)
 - d) Draw a nursing care plan to provide care to Mr. Ram. (6)

II. Write notes on:

(7 x 5 = 35)

1. Spinal cord injury.
2. Management of acute respiratory distress syndrome.
3. Perforative peritonitis.
4. Renal transplant.
5. Thyroid crisis.
6. Neonatal emergencies.
7. Organization of coronary care unit.

[KX 427]

SEPTEMBER 2010

Sub. Code: 2333

M.Sc. (NURSING) DEGREE EXAMINATION

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BRANCH I – MEDICAL SURGICAL NURSING

02 – CRITICAL CARE NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Detail on medical and surgical management of patient with Disseminated intravascular coagulation.
b) Explain the potential complications and preventive measures of patient with Intra Aortic Balloon pump.
2. a) Elaborate on the etiopathogenesis of Pulmonary thrombo embolism.
b) Draw a nursing care plan of a patient with pulmonary thrombo embolism.

II. Write notes on:

(7 x 5 = 35)

1. Collaborative management of cardiogenic shock.
2. Progressive patient care.
3. Nursing management of patient with tracheostomy.
4. Nursing care of patient with poisoning.
5. Ethical decision making in critical care unit.
6. Holistic critical care nursing.
7. Prevention and management of Burns complications.

[KY 427]

MAY 2011

Sub. Code: 2333

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2008-2009 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

02 – CRITICAL CARE NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Explain the predisposing factors and mechanisms of Acute Respiratory Failure.
b) Detail on the collaborative management Acute Respiratory Failure.
2. a) Describe the infection surveillance and prevention in critical care unit.
b) Explain the management of hyperglycemic patient and education on Diabetic keto acidosis.

II. Write notes on:

(10 x 6 = 60)

1. Advance cardiac life support.
2. Fluid and Electrolyte therapy of 40% burns.
3. Collaborative management of increased intracranial pressure.
4. Crisis interventions.
5. Dynamic of healing critical care unit.
6. Concepts of critical care nursing.
7. Burn out syndrome in critical care unit.
8. Drug overdose.
9. Pain management in critical care unit.
10. Cardioversion versus defibrillation.

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PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

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

- | | | | |
|---|----|---------|----|
| 1. Mrs. X is diagnosed to have Sclerosing Cholangitis and planned to undergo Liver transplant. | 15 | 40 min. | 20 |
| a) What are the indications for Liver transplant? | | | |
| b) Write the standard protocol for Liver donation. | | | |
| c) Discuss counseling on Liver donation. | | | |
| d) Elaborate on Nursing care of Mrs. X before and after Liver transplant. | | | |
| 2. Mr. S, 45 years old was diagnosed to have Grade II Glioma and planned to under go debulking of the tumour. | 15 | 40 min. | 20 |
| a) Write the grading of Glioma. | | | |
| b) Discuss the clinical manifestations. | | | |
| c) What is the prognosis with grading? | | | |
| d) Elaborate on Nursing care of Mr. S in the pre and immediate post operative period. | | | |

II. Write notes on :

- | | | | |
|--|---|---------|---|
| 1. Strategies to prevent stress and burn out in ICU Nursing staff. | 3 | 10 min. | 6 |
| 2. Principles of drug administration in acute emergencies. | 3 | 10 min. | 6 |
| 3. Nursing care of a patient with sedation on ventilator. | 3 | 10 min. | 6 |
| 4. Management of a patient with burst abdomen. | 3 | 10 min. | 6 |
| 5. Specific nursing care on patient with Gullian Barrie Syndrome. | 3 | 10 min. | 6 |
| 6. Management of patient undergoing hemodialysis with hypovolemic shock. | 3 | 10 min. | 6 |
| 7. Nursing care of patient with continuous ICP monitoring. | 3 | 10 min. | 6 |
| 8. Acute management of a patient in thyroid crisis. | 3 | 10 min. | 6 |
| 9. Design a cardio thoracic ICU set up with 8 beds. | 3 | 10 min. | 6 |
| 10. Steps in the management of attempted suicide by hanging. | 3 | 10 min. | 6 |

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PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

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

- | | | | |
|--|----|---------|----|
| 1. Mr. X is admitted for heart transplant. He is diagnosed to have cardiomyopathy. | 17 | 40 min. | 20 |
| a) Indications for heart transplant. | | | |
| b) Investigations done for the above patient. | | | |
| c) Drug management for the patient in pre-operative period. | | | |
| d) Nursing care of Mr.X in the pre, intra and post-operative period. | | | |
| 2. Master N met with road traffic accident and was declared brain dead. | 17 | 40 min. | 20 |
| a) Describe brain dead protocol. | | | |
| b) What are the differences between brain death and persistent vegetative state. | | | |
| c) Plan a holistic care on a patient in persistent vegetative state. | | | |

II. Write notes on :

- | | | | |
|---|---|---------|---|
| 1. Components of flow sheet in an neuro ICU . | 4 | 10 min. | 6 |
| 2. Methods to identify critical care psychosis and its management. | 4 | 10 min. | 6 |
| 3. Drug management in acute metabolic alkalosis. | 4 | 10 min. | 6 |
| 4. Standard safety measures in caring for patient with MRSA. | 4 | 10 min. | 6 |
| 5. Acute management of a patient with GI bleed. | 4 | 10 min. | 6 |
| 6. Management of the indwelling peritoneal catheter in peritoneal Dialysis. | 4 | 10 min. | 6 |
| 7. Management of intra cranial hypertension in the post operative phase. | 4 | 10 min. | 6 |
| 8. Acute management of Diabetic keto acidosis. | 4 | 10 min. | 6 |
| 9. Design a neuro ICU set with 12 beds. | 4 | 10 min. | 6 |
| 10. Explain the dynamics of healing in critical care unit. | 4 | 10 min. | 6 |

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02 – CRITICAL CARE NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

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

- | | | | |
|--|----|---------|----|
| 1. a) What are the causes of CVA. | 17 | 40 min. | 20 |
| b) Enumerate the pathophysiology of CVA. | | | |
| c) Explain the management of CVA including Rehabilitative measures. | | | |
| 2. a) What are the legal and ethical issues involved in critical care? | 17 | 40 min. | 20 |
| b) Explain the Nurses role in critical care set up. | | | |

II. Write notes on:

- | | | | |
|---|---|---------|---|
| 1. Renal Transplantation. | 4 | 10 min. | 6 |
| 2. ICD Care. | 4 | 10 min. | 6 |
| 3. Retinal Detachment. | 4 | 10 min. | 6 |
| 4. Adrenal crisis. | 4 | 10 min. | 6 |
| 5. Fulminant Hepatic Failure. | 4 | 10 min. | 6 |
| 6. Tracheo Oesophageal Fistula. | 4 | 10 min. | 6 |
| 7. Drug Overdose. | 4 | 10 min. | 6 |
| 8. Deep vein Thrombosis. | 4 | 10 min. | 6 |
| 9. Fluid and Electrolyte Therapy for Burns. | 4 | 10 min. | 6 |
| 10. Neurogenic Shock. | 4 | 10 min. | 6 |

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02 – CRITICAL CARE NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Define Respiratory failure.
b) Enumerate the causes, pathophysiology of respiratory failure.
c) Discuss the collaborative and nursing management of a patient with respiratory failure.
2. Discuss in detail about the lay out, physical set up, equipments and personnel planning to set an ideal medical ICU for 500 bed multispecialty hospital.

II. Write notes on:

(10 x 6 = 60)

1. Total parenteral nutrition.
2. Heart Break
3. Management of hypovolemic shock.
4. Haemorrhagic pancreatitis.
5. ICU psychosis.
6. Burns rehabilitation
7. Defibrillation.
8. Legal and ethical issues in organ donation.
9. Myxedema coma
10. Neonatal seizure.

[LD 427]

OCTOBER 2013

Sub. Code: 2333

**M.Sc. (NURSING) DEGREE EXAMINATION
SECOND YEAR**

(Regulations for candidates admitted from 2011-2012 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

02 – CRITICAL CARE NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Define acute Pancreatitis.
b) Enumerate the causes and discuss the pathophysiology of acute Pancreatitis.
c) Discuss the medical & nursing management of a patient with acute Pancreatitis.
2. Discuss in detail about multiple organ dysfunction syndrome and its management.

II. Write notes on:

(10 x 6 = 60)

1. Concepts of critical care nursing.
2. Burn out syndrome.
3. Drugs used in Critical Care Unit.
4. Non Pharmacological management of pain.
5. Herniation syndrome.
6. Hemodialysis.
7. Pathophysiology of diabetic ketoacidosis.
8. Management of glaucoma.
9. Holter monitoring.
10. Physical set up of ideal medical ICU.

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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BRANCH I – MEDICAL SURGICAL NURSING

02 – CRITICAL CARE NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Mr. 'X' is admitted with diagnosis of diabetic keto acidosis (DKA) in critical care unit.
Discuss the following:
 - a) Pathophysiology of DKA.
 - b) Clinical manifestations of DKA.
 - c) Write nursing management by applying nursing process.
2.
 - a) Classify burns and describe the pathophysiology of burns.
 - b) Explain the management of a patient with 70% burns Injury.

II. Write notes on:

(7 x 5 = 35)

1. Poisoning.
2. Design of critical care unit.
3. Quality assurance.
4. Pre eclampsia.
5. Pulmonary embolism.
6. Adrenal crisis.
7. Continuous ambulatory peritoneal dialysis.

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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BRANCH I – MEDICAL SURGICAL NURSING

02 – CRITICAL CARE NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Mr. 'X' is admitted to Medical Intensive Care Unit with a diagnosis of Guillain Barre Syndrome.
 - a) Describe pathophysiology with clinical manifestations.
 - b) List the diagnostic test that could confirm diagnosis.
 - c) Enumerate the aspects of medical management.
 - d) Write nursing management of patient with GBS.
2. Mrs. "Y" is admitted to the burns unit with 70% burn injury.
 - a) Enlist various methods used to calculate extent of body surface area injured.
 - b) Describe the characteristics of burns according to the depth.
 - c) Write aspects of nursing management during the emergent/Resuscitative phase.

II. Write notes on:

(7 x 5 = 35)

1. Progressive Patient Care.
2. Common drugs used in critical care unit.
3. Pulmonary Edema.
4. Complications of Unconsciousness.
5. Diabetic ketoacidosis.
6. Arterial blood gas analysis.
7. Nurses role in organ donation in Critical Care Units.

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02 – CRITICAL CARE NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Mr. 'X' is admitted to Critical Care Unit with a diagnosis of Acute Renal Failure.
 - a) Describe etiology, pathophysiology with clinical manifestations.
 - b) List the phases of ARF.
 - c) Discuss role of nurse in planning and implementation of hemodialysis.
2. Mrs. 'Y' is admitted with a diagnosis of fulminant hepatic failure.
 - a) Define fulminant hepatic failure and list etiology.
 - b) Describe the clinical manifestations, medical management and complications.
 - c) Discuss nursing care of patients with fulminant hepatic failure.

II. Write notes on:

(7 x 5 = 35)

1. Types of monitors and ventilators used in Critical Care Units.
2. Prevention of burn out syndrome among health care team members.
3. Pain management for a critically ill patient.
4. Increased Intra Cranial Pressure.
5. Anaphylactic shock.
6. Post partum hemorrhage.
7. Draw a critical care unit design with principles for 10 bedded unit.

[LH 427]

OCTOBER 2015

Sub. Code: 2333

M.Sc., (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2011-2012 Sessions onwards)

PAPER II – CLINICAL SPECIALITY - II

BRANCH I – MEDICAL SURGICAL NURSING

02 – CRITICAL CARE NURSING

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Define Acute respiratory distress syndrome.
b) Enumerate the causes and discuss the Pathophysiology of the Acute Respiratory distress Syndrome.
c) Discuss of the collaborative and nursing management of acute respiratory distress syndrome.
2. a) Cerebro vascular Accident.
b) Describe the causes and pathophysiology with clinical manifestation of CVA.
c) Explain the role of nurse in the management of patient with CVA.

II. Write notes on:

(7 x 5 = 35)

1. Theories of pain.
2. Management Perforative peritonitis.
3. Placebo effect.
4. Peritoneal Dialysis.
5. Thrombolytic therapy.
6. CPR.
7. Crisis intervention.

[LI 427]

APRIL 2016

Sub. Code: 2333

**M.Sc., (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code : 302333

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr. 'X' is admitted with diagnosis of Diabetic Keto Acidosis (DKA) in critical care unit. Discuss the following:
 - a) Pathophysiology of DKA.
 - b) Clinical manifestations of DKA.
 - c) Write nursing management by applying nursing process.
2.
 - a) Classify Burns and describe the Pathophysiology of Burns.
 - b) Explain the management of the patient with 70% of Burns injury.

II. Write notes on:

(7 x 5 = 35)

1. Poisoning.
2. Design critical care unit.
3. Quality assurance.
4. Pre eclampsia.
5. Pulmonary embolism.
6. Adrenal crisis.
7. Continuous ambulatory peritoneal dialysis.

[LJ 427]

OCTOBER 2016

Sub. Code: 2333

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code : 302333

Time : Three hours

Maximum : 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Mr. 'X' aged 60 yrs brought to the hospital in an unconscious state is admitted in intensive care unit.
 - a) Discuss the various causes of unconsciousness.
 - b) Explain the assessment of Mr. 'X'.
 - c) Elaborate the nursing management of Mr. 'X'.
 - d) Discuss the legal issues in organ donation.
2.
 - a) Define acute respiratory distress syndrome.
 - b) Enumerate the causes and explain the pathophysiology of the acute respiratory distress syndrome.
 - c) Write the medical management of acute respiratory distress syndrome.
 - d) Discuss of the nursing management of acute respiratory distress syndrome.

II. Write notes on: **(7 x 5 = 35)**

1. Renal transplant.
2. Acute G.I bleeding and management.
3. Management of hypoglycemia.
4. Collaborative management of hypovolemic shock.
5. Management of obstructed labour.
6. Asphyxia neonatarum.
7. Psychiatric emergencies.

[LK 427]

MAY 2017

Sub. Code: 2333

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING

Q.P. Code : 302333

Time : Three hours

Maximum : 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Mrs. X aged 68 years admitted with diagnosis of Acute Renal Failure (ARF).
 - a) List the causes of ARF.
 - b) Pathophysiology of ARF.
 - c) Clinical manifestations of ARF.
 - d) Write the collaborative management of ARF.
2.
 - a) List the types of living donors.
 - b) Discuss the role of nurse in organ donation.
 - c) List the complications of kidney transplantation.
 - d) Explain the care of patient in the post transplant unit.

II. Write notes on: **(7 x 5 = 35)**

1. Anaphylactic shock.
2. Myasthenia gravis.
3. Cardiac tamponade.
4. Spinal cord compression in cancer.
5. Hyper-calcemia.
6. Tumor lysis syndrome.
7. Role of nurse in administration of Inotropes.

[LL 427]

OCTOBER 2017

Sub. Code: 2333

**M.Sc. (Nursing) DEGREE EXAMINATION
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BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code : 302333

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Define and list the indication for mechanical ventilation.
b) Types and modes of mechanical ventilation.
c) Write the nursing management for patient with mechanical ventilation.
2. a) Discuss the pathophysiology of shock.
b) Describe the clinical manifestations of cardiogenic shock.
c) List the risk factors for the development of septic shock.
d) Describe the surviving sepsis campaign guidelines.

II. Write notes on:

(7 x 5 = 35)

1. Thoracic trauma.
2. Peritoneal lavage.
3. Liver injury scale.
4. Anti-dotes for specific drugs and toxins.
5. Thyroid crisis.
6. Paralytic Ileus.
7. Types of vertebral injury.

[LM 427]

MAY 2018

Sub. Code: 2333

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING

Q.P. Code : 302333

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mrs. S aged 45 years brought to the hospital with chest pain and palpitation, admitted in intensive care unit with nocturia, cyanosis, dyspnea and extremity pain.
 - a) Discuss on the symptoms assessment parameters in cardiovascular diseases.
 - b) List the conditions, other than myocardial necrosis where treponin is elevated.
 - c) List the fibrinolytic drugs with their actions and specific indications for use in cardiovascular conditions.
 - d) Write the nursing management of Mrs. S undergoing PCT (Percutaneous coronary interventions).
2.
 - a) Describe the nursing assessment skills of percussion and auscultation used for physical findings in selected eight chest disorders.
 - b) Describe the possible causes and signs and symptoms of acid-base disorders resulting from metabolic or respiratory system.
 - c) Enumerate the complications of intubation and suctioning in respiratory conditions.
 - d) Describe specific nursing management in any four priority conditions as trouble shooting guidelines when the patient is on mechanical ventilation.

II. Write notes on:

(7 x 5 = 35)

1. Complications of hemodialysis.
2. Mental status examination in neurological disorder.
3. Mechanism of spinal cord injury.
4. Disseminated intravascular coagulation.
5. Abnormal abdominal sounds.
6. Hepatic encephalopathy.
7. Signs and symptoms of thyroid dysfunctions.

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SECOND YEAR

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BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING

Q.P. Code: 302333

Time : Three Hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr. X of 56 year old is admitted in Medical Intensive Care Unit with Acute Respiratory Distress Syndrome (ARDS).
 - a) Write the etiology and patho-physiology of ARDS.
 - b) Explain the Medical and Nursing management for Mr. X.
2. Mr. A of 50 years is diagnosed to have C3 – C4 Spinal Cord Injury and he is in state of spinal shock.
 - a) Explain the patho-physiology of Spinal Cord Injury.
 - b) Discuss the medical and nursing management for Mr. A.

II. Write notes on:

(7 x 5 = 35)

1. Infection safety precautions in surgical ICU.
2. Diabetic keto-acidosis.
3. Hemodynamic monitoring.
4. Nursing management of patient with gastro-intestinal bleeding.
5. Brain death.
6. Nursing care of patient with pre-eclampsia.
7. Progressive patient care.

[LO 427]

MAY 2019

Sub. Code: 2333

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING

02 – CRITICAL CARE NURSING

Q.P. Code: 302333

Time : Three Hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Explain the pathophysiology and medical management of patient with cardiogenic shock.
b) Discuss the nursing care of patient with intra-aortic balloon pump.
2. Discuss the indications, pre-operative and post-operative nursing care of patient undergoing lung transplantation.

II. Write notes on:

(7 x 5 = 35)

1. Management of status asthmaticus.
2. Do Not Resuscitate order.
3. Inotropes in critically ill patients.
4. Wound management in burns.
5. Neonatal emergencies.
6. ABG Analysis.
7. Arterial pressure monitoring.

[LP 427]

OCTOBER 2019

Sub. Code: 2333

M.Sc. (Nursing) DEGREE EXAMINATION
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SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING

02 – CRITICAL CARE NURSING

Q.P. Code: 302333

Time : Three Hours

Maximum : 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. a) Define Intestinal Obstruction. Explain the types, pathophysiology, signs and symptoms of Intestinal Obstruction.
b) Explain the complications and emergency management of Intestinal obstruction.
2. a) Define Shock. Explain the stages, classification of shock.
b) Discuss the etiology, pathophysiology and emergency management of hypovolemic shock.

II. Write notes on: **(7 x 5 = 35)**

1. What are the principles of critical care nursing?
2. Obstetrical stock management.
3. Elaborate the indications and protocol of Basic Cardiac Life Support.
4. Make a note on etiology and immediate management of Increased Intra cranial pressure.
5. Explain the types and management of heart block.
6. Plan a layout of critical care unit.
7. Explain the role of critical care nurses in legal and ethical issues in organ donation.

[LQ 427]

**SEPTEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 2333

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Mr. X received in ICU with the complaints of severe breathlessness, sputum production, wheezing and ABG shows respiratory acidosis. Mr. X is been intubated, put on mechanical ventilation and diagnosed as Chronic Obstructive Pulmonary Disease.
 - a) Describe the risk factors, clinical manifestation and pathophysiology of COPD.
 - b) Write the pharmacological management and complications in detail.
 - c) Discuss the bronchial hygiene and ventilator management of Mr. X
2.
 - a) Define Myocardial Infarction and list the causes, clinical manifestation and diagnostic test for MI.
 - b) Explain in detail about the thrombolytic therapy.
 - c) Describe the cardiac rehabilitative measures of MI.

II. Write notes on: **(7 x 5 = 35)**

1. Pain management
2. Post-partum haemorrhage.
3. Perforative peritonitis.
4. Glaucoma
5. Nursing care of patient with head injury.
6. Rehabilitation of burns.
7. Paediatric emergencies.

[LS 427]

**DECEMBER 2020
(OCTOBER 2020 SESSION)**

Sub. Code: 2333

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on: (2 x 20 = 40)

1. Mr. H, 65 years, admitted in the critical care unit with severe Status Asthmatics.
 - a) Explain in detail the etiology, pathophysiology and clinical manifestations of Status Asthmatics.
 - b) Describe the Medical and Nursing Management for Mr. H.
2. Mention the principles of Critical Care Nursing and how will you set up Critical Care Unit for 15 bed hospital.

II. Write notes on: (7 x 5 = 35)

1. Intravenous Fluid Management in Critical Care Unit.
2. Hepatic Encephalopathy.
3. Management of Pain Among Critically Ill Patients.
4. Methicillin Resistant *Staphylococcus aureus*.
5. Acute Intestinal Obstruction.
6. Care of Patient with Retinal Detachment.
7. Thyroid Crisis.

[MSCN 0821]

**AUGUST 2021
(MAY 2021 SESSION)**

Sub. Code: 2333

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr. X met with RTA, brought to casualty and diagnosed as head injury with increased intracranial pressure.
 - a) Explain the types of head injuries.
 - b) Write down the pathophysiology and clinical manifestation of head injury.
 - c) Elaborate the nursing care of a patient with ICP and describe the management and rehabilitative measures for head injury.
2.
 - a) Concept and principles of critical care nursing.
 - b) Critical care setup, layout, equipment and care of various types of monitors and ventilators.
 - c) Stress and burnout syndrome in critical care unit among health care team members.

II. Write notes on:

(7 x 5 = 35)

1. Theories of pain.
2. Thoracic surgeries.
3. Acute pancreatitis.
4. Legal issues in organ donation.
5. Quality assurance in critical care unit.
6. Nursing care of patient before and after seizure.
7. Cardiogenic shock.

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

[MSCN 1022]

**OCTOBER 2022
(MAY 2022 EXAM SESSION)**

Sub. Code: 2333

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. a) Define Pain. Explain the Etiology, Types and Assessment of Pain.
b) Elaborate the Theories and Pharmacological management of Pain.
2. a) Define Acute Renal failure. Elaborate the etiology, phases and complications of Acute Renal failure.
b) Explain the management and nurses responsibilities of Acute Renal Failure.

II. Write notes on: **(7 x 5 = 35)**

1. What are the Dynamics of Healing in Critical Care unit?
2. Explain the Etiology, Assessment and Management of Unconsciousness.
3. Explain the Types and Management of Glaucoma.
4. Explain the Classification and Surgical Management of Aneurysms.
5. Explain the Indications and Steps in Chest Physiotherapy.
6. Discuss the Complications and Immediate Management of Postpartum Haemorrhage.
7. Write the Collaborative Management of Tracheoesophageal Fistula.

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

[MSCN 0323]

MARCH 2023

Sub. Code: 2333

(OCTOBER 2022 EXAM SESSION)

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Mr. 'X' is admitted with diagnosis of Diabetic Keto Acidosis (DKA) in critical care unit.
 - a) List down the causes of DKA.
 - b) Discuss pathophysiology and clinical manifestations of DKA.
 - c) Write nursing management by applying nursing process.
2. Mr. 'X' is admitted to Medical Intensive Care Unit with a diagnosis of Acute Respiratory failure (ARF).
 - a) Describe etiology, pathophysiology with clinical manifestations of ARF.
 - b) Enumerate the aspects of medical management.
 - c) Write nursing management of patient with ARF.

II. Write notes on: **(7 x 5 = 35)**

1. Explain the management of hepatic encephalopathy.
2. Detail on infection control team in critical care nursing.
3. Describe the acute intestinal obstruction.
4. Draw the management of pain among critically ill patients.
5. Discuss the nursing management of patient with thyroid crisis.
6. Explain the care of patient with bladder trauma.
7. Write briefly on care of patient with temporary and permanent pacemaker.

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

[MSCN 0923]

**SEPTEMBER 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2333

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code: 302333

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Mr.H, 65 years, admitted in the critical care unit with severe status asthmaticus.
 - a) Explain in detail etiology, pathophysiology and clinical manifestations.
 - b) Describe the medical and nursing management for Mr. H.
2. Mr. 'X' is admitted to Medical Intensive Care Unit with a diagnosis of Myasthenia Gravis.
 - a) Describe pathophysiology with clinical manifestations.
 - b) List the diagnostic test that could confirm diagnosis.
 - c) Enumerate the aspects of medical management.
 - d) Write nursing management of patient with Myasthenia Gravis.

II. Write notes on: **(7 x 5 = 35)**

1. Quality Assurance in CCU.
2. Prevention and management of burns complications.
3. Mechanical Ventilation.
4. Explain the care of patient with poisoning.
5. Enumerate retinal detachment.
6. Describe care of mother with obstetrical shock.
7. Discuss on stress and burn out syndrome among critical care nurses.

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

[MSCN 0424]

APRIL 2024

Sub. Code: 2333

(OCTOBER 2023 EXAM SESSION)

M.Sc. (Nursing) DEGREE EXAMINATION

(Regulations for the candidates admitted from the A.Y. 2011-2012 onwards)

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code: 302333

Time : Three Hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr. X, 45 years, is admitted to the intensive care unit with shock following an accidental fall.
 - a) Define shock, classify the types.
 - b) Describe the clinical manifestations of each type.
 - c) Explain the collaborative management for Mr. X.
2.
 - a) Explain the management of intracranial hypertension.
 - b) Write in detail about the nurses responsibilities of assessment of Intracranial Pressure.

II. Write notes on:

(7 x 5 = 35)

1. Myxoedema.
2. Fluid replacement therapy for burns.
3. Cardiopulmonary cerebral resuscitation.
4. Acute pancreatitis.
5. Neonatal seizures.
6. Role of the nurses related to legal issues in critical care unit.
7. Management of Antepartum haemorrhage.

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

[MSCN 0724]

**JULY 2024
(MAY 2024 EXAM SESSION)**

Sub. Code: 2333

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for the candidates admitted from the A.Y. 2011-2012 onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code: 302333

Time : Three Hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr. Raju is admitted to critical care unit with a diagnosis of head injury.
 - a) Describe etiology, types and pathophysiology of head injury.
 - b) List down the clinical manifestation and advanced diagnostic studies for head injury.
 - c) Discuss the emergency and collaborative management of patient with head injury.
2. Mr. X is admitted with 65% of burns in critical care unit.
 - a) Write the clinical types, classification and pathophysiology in different phases of burns.
 - b) Discuss the fluid resuscitation of burns.
 - c) Write the collaborative management and complications of burns.

II. Write notes on:

(7 x 5 = 35)

1. Pulmonary embolism.
2. Emergency Management of Neonatal seizure.
3. Progressive patient care.
4. Multiple organ dysfunctional syndrome.
5. Do Not Resuscitate (DNR).
6. Collaborative care for thoracic injuries.
7. Surgical and nursing management of Retinal detachment.

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

[MSCN 0525]

MAY 2025

Sub. Code: 2333

**M.Sc. (NURSING) DEGREE EXAMINATION
(Regulations for candidates admitted from A.Y. 2011-2012 onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
02 – CRITICAL CARE NURSING**

Q.P. Code: 302333

Time : Three Hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr. X is admitted to Critical Care Unit with a diagnosis of Pneumothorax.
 - a) Describe the etiology, pathophysiology and clinical manifestation of Pneumothorax.
 - b) Enumerate the diagnostic studies and immediate management of Pneumothorax.
 - c) Write the Nursing management by applying Nursing process for Mr. X.
2. a) Define Shock. Explain the stages and pathophysiology of Shock.
 - b) Describe the etiology, clinical manifestations and emergency management of Cardiogenic shock.

II. Write notes on:

(7 x 5 = 35)

1. Legal aspects in Critical Care Unit.
2. Management of Status asthmaticus.
3. Ethical considerations of Brain death in Critical Care Unit.
4. Placebo effect.
5. Crisis intervention.
6. Surgical management of Intestinal obstruction.
7. Burns rehabilitation.

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

[MSCN 1125]

**NOVEMBER 2025
(OCTOBER 2025 EXAM SESSION)**

Sub. Code: 2333

**M.Sc. (NURSING) DEGREE EXAMINATION
(Regulations for candidates admitted from the A.Y. 2011-2012 onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
(ii) – CRITICAL CARE NURSING**

Q.P. Code: 302333

Time : Three Hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Mr. X received in ICU with the complaints of coughing up blood, frothy mucus sputum production and gasping for air. Mr. X is being intubated, put on mechanical ventilation and diagnosed as pulmonary edema.
 - a) Describe the risk factors, clinical manifestations and pathophysiology of Pulmonary edema.
 - b) Write the management including nursing care and complications of Pulmonary edema.
 - c) Discuss the Ventilator management of Mr. X.
2.
 - a) Define Coronary Artery Disease (CAD) and explain the pathophysiology of CAD.
 - b) Describe the risk factors, clinical manifestations and management including nursing management for patient undergoing coronary artery bypass graft.

II. Write notes on: **(7 x 5 = 35)**

1. Explain the Methicillin Resistant Staphylococcus Aureus (MRSA) infection prevention in ICU.
2. Explain the management algorithm for upper GI bleeding.
3. Discuss the assessment of Intra cranial pressure.
4. Explain the progressive patient care.
5. Describe pain and sedation in critically ill patients.
6. Role of nurse in renal transplant.
7. Fluid and electrolyte therapy in burns.
