[KY 431] **MAY 2011** **Sub. Code: 2337**

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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

BRANCH I – MEDICAL SURGICAL NURSING

06 – ORTHOPEDIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302337

Time: Three Hours **Maximum: 100 marks**

Answer ALL questions

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

1. a) Define quality assurance.

   b) Explain the clinical pathways to improve quality assurance in orthopedic unit.

   c) Explain the role of orthopedic nurse in infection control in an orthopedic units.

2. Describe the causes, pathophysiology, clinical manifestation, diagnosis and management of Rheumatoid arthritis.

II. Write notes on: **(10 x 6 = 60)**

1. Traction.
2. Amputation.
3. Muscular dystrophy.
4. Prosthetics.
5. Bone healing process.
6. Disc prolapse.
7. Spinal shock.
8. Poliomyelitis.
9. Ankylosing spondylitis.
10. Arthritis.

****

[KZ 431] **OCTOBER 2011** **Sub. Code: 2337**

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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

BRANCH I – MEDICAL SURGICAL NURSING

06 – ORTHOPEDIC NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302337

Time: Three Hours **Maximum: 100 marks**

Answer ALL questions in the same order.

I. Elaborate on :	**Pages (Max.)**	**Time (Max.)**	**Marks (Max.)**
1. Describe the causes, pathophysiology, clinical manifestation, diagnosis and management of Rheumatoid arthritis.	15	40 min.	20
2. Explain in detail about spinal injuries.	15	40 min.	20
II. Write notes on :			
1. Sports injuries.	3	10 min.	6
2. Different types of therapies for bone tumour.	3	10 min.	6
3. Bladder and bowel rehabilitation.	3	10 min.	6
4. Types of gaits and explain each.	3	10 min.	6
5. Principles of maintaining effective skeletal traction.	3	10 min.	6
6. Scoliosis.	3	10 min.	6
7. Rickets.	3	10 min.	6
8. Meningocele.	3	10 min.	6
9. Paget’s disease.	3	10 min.	6
10. Nursing care of a patient with cast.	3	10 min.	6

****

[LC 431] **APRIL 2013** **Sub. Code: 2337**

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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

BRANCH I – MEDICAL SURGICAL NURSING

06 – ORTHOPEDIC NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302337

Time: Three Hours **Maximum: 100 marks**

Answer All questions

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

1. Explain in detail about osteoporosis.

2. a) Describe mechanism, pathophysiology, and manifestations of spinal cord injury.
   b) Discuss the medical and surgical management of patient with spinal cord injury.
   c) Nursing process application for a client with spinal cord injury.

II. Write notes on: **(10 x 6 = 60)**

1. Bone healing.
2. Rheumatoid arthritis.
3. Crutch walking.
4. Compartment syndrome.
5. Infection control in orthopedic units.
6. Sports injury.
7. Purposes and types of traction.
8. Remobilization after traumatic injury.
9. Psycho social aspects of disability.
10. Discharge plan after total hip replacement.

****

[LD 431] **OCTOBER 2013** **Sub. Code: 2337**

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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

BRANCH I – MEDICAL SURGICAL NURSING

06 – ORTHOPEDIC NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302337

Time: Three Hours **Maximum: 100 marks**

Answer All questions

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

1. Discuss the clinical manifestations, diagnosis, treatment and theory based nursing care for a patient with a fracture in the right foot.
2. Discuss the various orthopedic reconstructive surgeries and the role of a nurse in replacement surgeries.

II. Write notes on: **(10 x 6 = 60)**

1. Low back pain.
2. Osteomyelitis.
3. Medical treatment for bone tumors.
4. Chromosomal bone disorders.
5. Nursing care prevention and management of sport injuries.
6. Myasthenia gravis.
7. Bladder rehabilitation.
8. Staffing pattern of a hundred bedded orthopedic hospital
9. Role of nurse in genetic counseling.
10. Poliomyelitis

****

[LE 431] **APRIL 2014** **Sub. Code: 2337**

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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

BRANCH I – MEDICAL SURGICAL NURSING

06 – ORTHOPEDIC NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302337

Time: Three Hours **Maximum: 75 marks**

Answer All questions

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

1. a) Define hip fracture.

   b) Enumerate the diagnostic features and discuss the pathophysiology of hip fracture.

   c) Discuss the surgical and nursing management of a patient suffering from a hip fracture.

2. Discuss in detail about bone tumors and their management.

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

1. Poliomyelitis.
2. Vascular injuries.
3. Muscle strength testing.
4. Orthopedic team.
5. Genetic counseling.
6. Bladder and bowel rehabilitation.
7. Gait analysis.

****

[LF 431] **OCTOBER 2014** **Sub. Code: 2337**

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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

BRANCH I – MEDICAL SURGICAL NURSING

06 – ORTHOPEDIC NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302337

Time: Three Hours **Maximum: 75 marks**

Answer All questions

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

1. a) Define Amputation.

   b) Enumerate the causes and types of Amputation.

   c) Discuss the Surgical and Nursing Management of patient with below knee Amputation.

2. Discuss in detail about Osteomyelitis and its management.

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

1. Scope of Orthopedic Nursing.
2. Wrist injury.
3. Cervical spondylosis.
4. Osteomalacia.
5. Myasthenia gravis.
6. Nurses role in genetic counseling.
7. Helio therapy.

****

[LG 431] **APRIL 2015** **Sub. Code: 2337**

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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

BRANCH I – MEDICAL SURGICAL NURSING

06 – ORTHOPEDIC NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302337

Time: Three Hours **Maximum: 75 marks**

Answer All questions

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

1. a) Explain in detail about medical, surgical and nursing management of femur fracture.

   b) Describe the common complications of fracture.

2. a) Explain the pathophysiology of shock in Spinal Cord Injury.

   b) Detail the Medical, surgical and nursing management of patient with Spinal Cord Injury.

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

1. Compartment syndrome.
2. Osteoporosis.
3. Paraplegia.
4. Post operative nursing care of patient undergone above knee amputation.
5. Systemic Response to Injury.
6. Psychosocial and social aspects of disability.
7. Traction.

****

[LH 431] **OCTOBER 2015** **Sub. Code: 2337**

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

06 – ORTHOPEDIC NURSING

Q.P. Code: 302337

Time: Three Hours **Maximum: 75 marks**

Answer All questions

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

1. a) Explain the Complications of pelvic fracture.

   b) Detail the Post operative nursing care of patient with pelvic fracture.

2. a) Describe the pathophysiology and clinical manifestations of Rheumatoid Arthritis.

   b) Explain the medical, surgical and nursing management of patient with Rheumatoid Arthritis.

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

1. Immediate management of cervical injury.
2. Herniated intervertebral disc.
3. Ankylosing spondylitis.
4. Gout.
5. Preventive measures of Deep Vein Thrombosis in major fractures.
6. Physical therapies for musculoskeletal pain.
7. Bladder and bowel rehabilitation for the patient with spinal injury.

****

[LI 431] APRIL 2016 **Sub. Code: 2337**

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
06 – ORTHOPAEDIC NURSING

Q.P. Code : 302337

Time : Three hours **Maximum : 75 Marks**

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

1. a) List down the indications and causes for Amputation.
   b) Explain in detail on Pre and Post Operative care of patient subjected to above Knee Amputation.

2. a) Explain the various types of Fracture.
   b) Draw Post Operative nursing care plan for the patient undergone Open Reduction and Internal Fixation for comminuted fracture in shaft of the Right Humerus.

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

1. Immediate management of patient with Spinal Cord Injuries.
2. Management of patient with chest injuries.
3. Osteoarthritis.
4. Sprains and strains.
5. Neurogenic Shock.
6. Bone tumours.
7. Quadriplegia.

****

[LJ 431] OCTOBER 2016 **Sub. Code: 2337**

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
06 – ORTHOPAEDIC NURSING

Q.P. Code : 302337

Time : Three hours **Maximum : 75 Marks**

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

1. a) Describe the types, pathophysiology and clinical manifestations of bone tumor.

   b) Explain the medical, surgical and nursing management of patient with bone tumor.

2. a) Explain the etiology, pathophysiology, clinical manifestations and diagnostic evaluation of pelvic fracture.

   b) Write the medical, surgical and nursing management of patient with pelvic fracture.

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

1. Systemic response to injury.
2. Tuberculosis in bone.
3. Genetic counseling.
4. Infection control in orthopedic unit.
5. Crutch walking.
6. Rheumatoid arthritis.
7. Types of grafts and flaps.

****

[LL 431] OCTOBER 2017 **Sub. Code: 2337**

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
06 – ORTHOPAEDIC NURSING

Q.P. Code : 302337

Time : Three hours **Maximum : 75 Marks**

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

1. a) Discuss in detail about the lay out, physical set up, equipments and staffing pattern for an ideal orthopaedic and rehabilitation unit for 500 bed multispecialty hospital.
   b) Explain the nurse's role in orthopaedic unit set up.

2. Describe the etiology, pathophysiology, clinical manifestation, diagnosis and management of head injury patients.

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

1. Types of prosthetics and explain about each.
2. Legal and ethical issues in rehabilitation nursing.
3. Nursing management of lumbar disc prolapsed patients.
4. Types of disabilities at old age.
5. Osteomyelitis.
6. Post-operative care of amputation.
7. Rheumatoid arthritis.

****

[LN 431] OCTOBER 2018 **Sub. Code: 2337**

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

06 – ORTHOPAEDIC NURSING

Q.P. Code: 302337

Time : Three Hours **Maximum : 75 Marks**

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

1. a) Define spinal fracture.
   b) Enumerate the etiology, pathophysiology and diagnostic measures of spinal fracture.
   c) Discuss in detail the medical, surgical and nursing management of a patient with spinal fracture.

2. a) What is rehabilitation in orthopaedics?
   b) Explain Community Based Rehabilitation (CBR) in orthopaedics.

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

1. Different types of bone tumors.
2. Paget's disease.
3. Computer related deformities.
4. Congenital dislocation of hip.
5. Osteoporosis.
6. Nursing care of a patient with traction.
7. Nursing audit in rehabilitation unit.

****

[LP 431] OCTOBER 2019 **Sub. Code: 2337**

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

06 – ORTHOPAEDIC NURSING

Q.P. Code: 302337

Time : Three Hours **Maximum : 75 Marks**

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

1. a) Describe the collaborative management of Osteoporosis including nutritional management.
   b) Pathophysiology and clinical features of Rheumatoid Arthritis.

2. a) Outline the trends and types of orthopedic reconstructive surgeries performed.
   b) Draw a nursing care plan for patient undergoing scoliosis correction.

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

1. Forms of physical treatments.
2. Carpal funnel syndrome.
3. Management of Chronic Osteomyelitis.
4. Pott's spine.
5. Sports injuries.
6. Rehabilitation of a quadriplegic patient.
7. Spine Stabilization.

****

[LS 431] DECEMBER 2020 **Sub. Code: 2337**
(OCTOBER 2020 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

06 – ORTHOPAEDIC NURSING

Q.P. Code: 302337

Time : Three Hours **Maximum : 75 Marks**

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

1. a) Causes & Clinical Features of Polytrauma.
   b) List the Diagnostic Evaluation & Role of Orthopaedic Nurse in the Management of Polytrauma in an Emergency Unit.

2. a) Pathophysiology and Clinical Manifestation of Rheumatoid Arthritis.
   b) Medical, Surgical and Nursing Care of Patient undergone Knee Replacement.

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

1. Complications of Fracture.
2. Osteoporosis.
3. Sciatica.
4. Muscular Dystrophy.
5. Bowel and Bladder Rehabilitation for a Patient with Quadriplegia.
6. Types of Gait.
7. Myasthenia Gravis.

****

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

[MSCN 0323] **MARCH 2023** **Sub. Code: 2337**

(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
06 – ORTHOPAEDIC NURSING AND REHIBILITATION NURSING

Q.P. Code: 302337

Time : Three Hours **Maximum : 75 Marks**

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

1. a) Plan an orthopaedic unit for 100 bed strength, including polices, staffing, materials and equipments.
   b) Illustrate the legal and ethical issues in Rehabilitation Nursing.
2. a) Enlist the challenges in elderly person.
   b) Gait Assessment.
   c) Apply nursing theory in providing nursing care of an elderly person.

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

1. Skeletal traction.
2. Septic Arthritis.
3. Therapies for bone tumor.
4. Hypervitaminosis A and D.
5. Peripheral Neuropathy.
6. Myasthenia gravis.
7. Genetic Counselling.

****

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

[MSCN 0923] **SEPTEMBER 2023** **Sub. Code: 2337**

(MAY 2023 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
06 – ORTHOPAEDIC NURSING AND REHIBILITATION NURSING

Q.P. Code: 302337

Time : Three Hours **Maximum : 75 Marks**

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

1. a) Explain the types of Head injuries.
   b) Describe Autoregulation mechanism in maintaining ICP.
   c) Apply Nursing theory in a patient with Head injury.
2. a) Discuss the types of Fracture.
   b) Elaborate the Surgical management of patient with fracture.
   c) Discuss the principles of Traction.

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

1. District Rehabilitation centres and their schemes.
2. Nursing Audit in an Orthopaedic unit.
3. Urodynamic studies.
4. Ewing's sarcoma.
5. Chest physiotherapy.
6. Systemic lupus Erythematosus.
7. Graft rejection.

****

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

[MSCN 0424] APRIL 2024 Sub. Code: 2337
(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
06 – ORTHOPAEDIC NURSING AND REHIBILITATION NURSING

Q.P. Code: 302337

Time : Three Hours **Answer ALL Questions** **Maximum : 75 Marks**

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

1. a) Discuss the risk factors, types, and clinical manifestations of Osteomyelitis.
   b) Apply nursing process in caring for a patient with Osteomyelitis.

2. a) Discuss the pathophysiology and clinical manifestations of Osteoporosis.
   b) Explain the medical management of Osteoporosis.
   c) Discuss health education points for a patient with Osteoporosis.

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

1. Therapeutic diet for orthopaedic disorders.
2. Phases of fracture healing.
3. Bowel rehabilitation.
4. Complications after amputation.
5. Management of sprains and strains.
6. Designing an orthopaedic ward.
7. Community based rehabilitation in orthopaedics.

****

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

[MSCN 1125] **NOVEMBER 2025** **Sub. Code: 2337**

(OCTOBER 2025 EXAM SESSION)

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

(vi) – ORTHOPAEDIC NURSING AND REHIBILITATION NURSING

Q.P. Code: 302337

Time : Three Hours **Answer ALL Questions** **Maximum : 75 Marks**

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

1. a) Discuss the indications and complications of limb amputation.
   b) Apply nursing process in caring for a patient after lower limb amputation.

2. a) Discuss the pathophysiology and associated clinical manifestations of Rheumatoid arthritis.
   b) Explain the medical management of Rheumatoid arthritis.
   c) Discuss aspects of patient education after Total Knee Replacement.

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

1. Compartment syndrome.
2. Low back pain.
3. Non-surgical management of spinal cord injury.
4. Body mechanics.
5. Bone tuberculosis.
6. Ethical and legal issues in rehabilitation.
7. Prevention and care of problems related to immobility.

****