

BACHELOR IN PROSTHETICS AND ORTHOTICS
(New Syllabus 2017-2018)

SECOND YEAR

**PAPER II – ORTHOPAEDICS, AMPUTATION SURGERY AND
IMAGING SCIENCE**

Q.P. Code: 802462

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. What are the signs and symptoms of fracture? List the general principles of fracture management.
2. What is scoliosis? Write about the various types and treatment of scoliosis.
3. Write in detail about the causes and management of Leprosy. What is the role of an Orthotist in management of leprosy deformities?

II. Write notes on:

(8 x 5 = 40)

1. Explain about revision amputation. What are its indications?
2. What is neuropathic joint? Explain its Management.
3. Explain about different types of hip dislocations.
4. What is Genu recurvatum? Write its causes and management.
5. Write about the causes and orthotic intervention in carpal tunnel syndrome.
6. Write about Perthes disease.
7. Write about amputation in diabetics.
8. Write about X-Ray as a diagnostic tool.

III. Short answers on:

(10 x 3 = 30)

1. Write about ankylosing spondylitis.
2. Write about Colle's Fracture.
3. Write about causes of metatarsalgia.
4. What is Madelung's deformity?
5. List causes of spinal cord injury.
6. Write about rib angle measurement.
7. What is tennis elbow? List its symptoms.
8. List causes of peripheral nerve injuries.
9. Why do deformities occur in burns patients?
10. Write about kyphosis.

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

[AHS 0321]

MARCH 2021

Sub. Code: 2462

(AUGUST 2020 EXAM SESSION)

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018)

**PAPER II – ORTHOPAEDICS AND AMPUTATION SURGERY AND IMAGING
SCIENCE**

Q.P. Code : 802462

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about the signs and symptoms and management of Rheumatoid arthritis.
2. Write about causes, symptoms and types of shoulder dislocation. Add a note on its management.
3. Write in detail about the causes, signs and symptoms and treatment of wrist drop.

II. Write notes on:

(8 x 5 = 40)

1. Explain about stump refashioning.
2. What is Flap surgery? Explain.
3. Explain about the acute care management after sports injuries.
4. How MRI is beneficial when compared to other diagnostic tools?
5. Write about tuberculosis arthritis and its management
6. How is a ligament injury managed in the acute and chronic stage?
7. What is metatarsalgia? Explain its causes and management.
8. Explain about Volkmann's contracture, its causes and management.

III. Short answers on:

(10 x 3 = 30)

1. What are the common sites of femur fracture?
2. List the symptoms of Madelung's deformity?
3. Write about rib angle measurement
4. Write about dysplasia in the hip
5. List treatment for plantar fasciitis
6. Explain the treatment of Leprosy
7. Why are amputations done in children?
8. What is sonography?
9. Write about podiatry
10. List causes of hemophilic joints

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[AHS 0222]

**FEBRUARY 2022
(AUGUST 2021 EXAM SESSION)**

Sub. Code: 2462

**BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018)
PAPER II – ORTHOPAEDICS AND AMPUTATION SURGERY AND IMAGING
SCIENCE
Q.P. Code : 802462**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

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

1. What is osteoporosis? What are the causes, symptoms and principles of management of osteoporosis?
2. What are the common types of burns? Discuss the management of upper extremity burns with a specific note on orthotic management.
3. Write about post operative prosthetic management after above elbow amputation

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

1. List the benefits of using CT scan in diagnosis of musculoskeletal diseases.
2. Write about the causes of tennis elbow. Add a note on its management.
3. Write about the treatment of meniscal tear in the knee
4. Diabetics are more prone for lower limb amputations. Explain why.
5. What are the causes and treatment of osteomyelitis?
6. List the common ligaments to be injured in the knee and their management principles
7. What is congenital talipes equinovarus? Explain.
8. Write about Lordosis and its management.

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

1. What is ideal stump?
2. How is benign tumor different from a malignant tumor?
3. Write about intervertebral disc prolapse
4. List common causes of cervical spinal cord injury
5. What is spina bifida?
6. Write about treatment of scurvy
7. What is Genu varum? Explain
8. Write about common fracture sites in the humerus
9. Write about calcaneovarus
10. What is the treatment for inflammation of tendon sheath?

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[AHS 0922]

SEPTEMBER 2022

Sub. Code: 2462

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation from 2017-2018)

**PAPER II – ORTHOPAEDICS & AMPUTATION SURGERY & IMAGING
SCIENCE**

Q.P. Code : 802462

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. List common causes of spinal cord injuries. Explain management of a 30 years old male with spinal cord injury in the lumbar area.
2. What are the common acquired deformities of the knee? List their causes and management.
3. Explain in detail about indications for amputation. List the types of lower extremity amputations.

II. Write notes on:

(8 x 5 = 40)

1. List the benefits of using X-Ray as a diagnostic tool.
2. List the causes of Guillotine amputation.
3. Write about the different types of muscular dystrophy.
4. Write about claw hand deformity and its orthotic treatment.
5. Explain about the causes and treatment of periarthritis shoulder.
6. Write about paralytic dislocation of hip.
7. When does gout occur? How can it be treated?
8. What are the signs and symptoms of fractures?

III. Short answers on:

(10 x 3 = 30)

1. Write about rib angle.
2. What is Leprosy? How is it caused?
3. Why is a fracture site immobilized?
4. How can sports injuries be prevented?
5. Write about the management of scoliosis.
6. Write about pes valgus.
7. What is infective arthritis?
8. How much time is taken for fracture healing?
9. How to measure the extent of burns?
10. Write about treatment for patella dislocation.

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[AHS 0423]

APRIL 2023

Sub. Code: 2462

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018 onwards)

PAPER II – ORTHOPAEDICS & AMPUTATION SURGERY & IMAGING SCIENCE

Q.P. Code: 802462

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Explain Dislocation. What are the signs, symptoms and general principles of management of Dislocations?
2. Write in detail about Congenital Talipes Equino Varus (CTEV) and its Orthotic management.
3. Write about post operative Prosthetic management after Below Knee Amputation.

II. Write notes on:

(8 x 5 = 40)

1. Explain about the signs of Rheumatoid Arthritis.
2. Causes and management of recurrent dislocation of the shoulder.
3. What is Genu varum? Write its causes and Orthotic management.
4. Write about causes and management of Knee Meniscus Tear.
5. Explain the causes of Wrist drop. Explain the Orthotic intervention in Wrist Drop.
6. What are the types of Tumors? List general management of Tumors.
7. Write in detail about the ideal stump.
8. Explain how CT scan is used as a diagnostic tool.

III. Short answers on:

(10 x 3 = 30)

1. Write about Monteggia fracture.
2. What is Bicipital tendinitis?
3. Congenital limb deficiencies.
4. Rickets.
5. Cobb angle measurement
6. Why do entrapment neuropathies occur?
7. List deformities that occur in Leprosy.
8. What is Mallet finger?
9. What is Subluxation? How is it different from dislocation?
10. Write about causes of Congenital Dislocation of Hip.

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[AHS 1123]

NOVEMBER 2023

Sub. Code: 2462

**BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018 onwards)
PAPER II – ORTHOPAEDICS & AMPUTATION SURGERY & IMAGING
SCIENCE
Q.P. Code: 802462**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What is Fracture? What are the common causes of Fracture? Explain about principles of Fracture management.
2. What is Osteoporosis? Explain the causes and management of Osteoporosis.
3. Explain in detail about Revision Amputation. Explain the indications of this surgery.

II. Write notes on:

(8 x 5 = 40)

1. What is Osteoarthritis? Explain management of Knee Osteoarthritis.
2. What is Genu recurvatum? Write its causes and management.
3. Write about the causes and treatment of Torticollis.
4. What is Volkmann's Contracture? List its causes and Orthotic management.
5. List common sports injuries and how they occur?
6. Write about Skin infection in residual limb and its management.
7. Explain how MRI is used as a diagnostic tool.
8. Write about Spina Bifida and its management.

III. Short answers on:

(10 x 3 = 30)

1. What is Bursitis? How can it be treated?
2. Galeazzi fracture.
3. Podiatry.
4. What are the causes of metabolic diseases?
5. Ischemic limb.
6. What is Metatarsalgia?
7. Plantar fasciitis.
8. Management of Neuropathic foot.
9. List the types of Muscular dystrophy.
10. List causes of Gout.

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

[AHS 0424]

APRIL 2024

Sub. Code: 2462

**BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018 onwards)
PAPER II – ORTHOPAEDICS & AMPUTATION SURGERY &
IMAGING SCIENCE
Q.P. Code: 802462**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

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

1. What is Osteoarthritis and describe complete cycle of pathology.
2. What is post-polio sequelae and how it is affecting the population with post-polio residual paralysis?
3. Differentiate between Fracture, Subluxation and Dislocation with suitable pictures.

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

1. Imaging modalities in Hallux valgus deformity.
2. Clinical features of congenital dislocation of hip.
3. Explain about Periarthritis of shoulder.
4. Clinical features and management option for wrist drop.
5. Explain the complications of Colle's fracture.
6. Write in detail about Fore foot deformities.
7. Explain the common acquired deformities of Hip.
8. Explain how diabetes can be a cause of lower limb amputation.

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

1. Genu-valgum.
2. Plantar fasciitis.
3. Heel spur.
4. Tennis elbow.
5. Coxa-vara.
6. Swan-neck deformity.
7. Myoplasty.
8. Bursitis.
9. Bayonet deformity.
10. Gout.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 2462

BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018 onwards)
PAPER II – ORTHOPAEDICS & AMPUTATION SURGERY &
IMAGING SCIENCE
Q.P. Code: 802462

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

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

1. Define subluxation and dislocation. Write about the treatment options for Congenital dislocation of the hip.
2. Pre and post-operative management in amputation surgery and the different levels of lower limb amputation.
3. Clinical presentation, complications and management of Tuberculosis of spine.

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

1. Write about X-ray as a diagnostic tool.
2. Explain the signs and symptoms of rheumatoid arthritis.
3. Explain the common fracture sites of femur and its orthotic management.
4. Explain the signs and symptoms of Osteoarthritis. List its orthotic management.
5. Explain the postoperative complications and care after amputation.
6. Explain about peri arthritis of shoulder.
7. Explain the grading of burn and its management.
8. Describe why diabetics are more prone for lower limb amputations.

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

1. Explain Torticollis.
2. Differentiate Coxa vara and Coxa valga deformities.
3. Carpal Tunnel Syndrome.
4. Explain Osteomalacia.
5. Write the causes for dislocation of patella.
6. Define Barton's fracture.
7. Bunion deformity.
8. Define bursitis.
9. What is Revision amputation?
10. What is Genu recurvatum?
