

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

SECOND YEAR

**PAPER III – COMMUNITY REHABILITATION AND
DISABILITY PREVENTION**

Q.P. Code: 802463

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Write the causes of quadriplegia and write about its management.
2. List the differences between Institution based and community based rehabilitation.
3. List common health problems of a bed ridden patient and ways of preventing such problems.

II. Write notes on:

(8 x 5 = 40)

1. Write the indications and contra indications of traction.
2. List the benefits of hydrotherapy.
3. Explain about pre prosthetic management for a below knee amputee.
4. Write how to check normal developmental milestones in a child?
5. List the benefits of early intervention.
6. How to prevent falls in the elderly?
7. Write about the management of a patient with Duchenne muscular dystrophy.
8. Orthotic management of a polio patient.

III. Short answers on:

(10 x 3 = 30)

1. Where is the centre of gravity located in an erect person with normal posture?
2. Write about goniometry.
3. What is telemedicine? What are its benefits?
4. What is a motor unit?
5. Splints used for claw hand that is caused due to Leprosy.
6. Write about disability evaluation.
7. Write about importance of working as a team in the community.
8. Orthotic management of club foot.
9. Write about the management of a child with cerebral palsy.
10. Write about posture analysis.

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

[AHS 0321]

MARCH 2021

Sub. Code: 2463

(AUGUST 2020 EXAM SESSION)

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018)

PAPER III – COMMUNITY REHABILITATION AND DISABILITY PREVENTION

Q.P. Code : 802463

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Write the causes of hemiplegia and write about its management.
2. List the members of the rehabilitation team and the role of the prosthetist in rehabilitation of a below knee amputee in the community.
3. List the indications and contraindications of heat therapy.

II. Write notes on:

(8 x 5 = 40)

1. List the indications and contraindications for hydrotherapy.
2. Write about the grading of muscle strength.
3. Write about early identification and its benefits.
4. Advantages of community based rehabilitation.
5. Write about the disabilities caused in Leprosy and their management.
6. Assessment of delayed milestones in a child.
7. Write about assessment of the activities of daily living.
8. Write about the concept of comprehensive rehabilitation.

III. Short answers on:

(10 x 3 = 30)

1. List the various planes of muscular movement.
2. How can one check the range of motion of shoulder joint?
3. How to prevent bed sores in a bedridden patient?
4. Write about legislation in place to help the differently abled.
5. Write about rehabilitation of a visually impaired person.
6. What are the causes of cerebral palsy?
7. Orthotic intervention in carpal tunnel syndrome.
8. List the activities of daily living.
9. What are the different movements possible in the shoulder joint?
10. Write about play therapy and when it can be used.

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[AHS 0222]

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

Sub. Code: 2463

**BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018)
PAPER III – COMMUNITY REHABILITATION AND DISABILITY PREVENTION
Q.P. Code : 802463**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

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

1. Hydrotherapy treatment technique
2. Disability Rights and government schemes
3. Management of Cerebral Palsy

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

1. Role of P&O in Community Based Rehabilitation (CBR)
2. Principles of clinical examination
3. Management of Neuropathic foot ulcer
4. Causes for hemiplegic disorder
5. Electrotherapy
6. Hearing and visual aids
7. Guillian Barre Syndrome
8. Orthotic Management of Poliomyelitis

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

1. Goniometer
2. Spasticity
3. Normal range of motion of knee and ankle joint
4. Advantages of Rehabilitation team
5. Types of pediatric walkers
6. Four point support walking cane
7. Bandaging techniques for transtibial patient
8. Assistive aids for ADL activities
9. Osteoporosis
10. Telemedicine

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

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 2463

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation from 2017-2018)

PAPER III – COMMUNITY REHABILITATION & DISABILITY PREVENTION

Q.P. Code : 802463

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What are the Common / Important complications after amputations? How do you manage them?
2. Describe child development milestone and delayed milestone.
3. Define impairment, disability and handicap. Explain International Classification of Functioning, Disability and Health (ICF).

II. Write notes on:

(8 x 5 = 40)

1. Rehabilitation of Cerebral Palsy.
2. Problems related with ageing and their management.
3. Rehabilitation management of Club foot (CTEV).
4. Differences between Institute Based Rehabilitation (IBR) and Community Based Rehabilitation (CBR).
5. Rehabilitation of Hemiplegia.
6. Suggest measures to make CBR activities more purposeful.
7. Early Identification and Rehabilitation.
8. What do you understand by Rehabilitation and Habilitation?

III. Short answers on:

(10 x 3 = 30)

1. Centre of gravity of Human in the normal standing position.
2. Normal Human Posture.
3. Electrotherapy.
4. Heat therapy.
5. Hydrotherapy.
6. Exercise Therapy.
7. Activities of Daily Living (ADL).
8. Disability evaluation.
9. Define Low Vision as per RPwD, Act 2016.
10. Early Intervention of congenital limb deficiency child.

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

[AHS 0423]

APRIL 2023

Sub. Code: 2463

BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018 onwards)
PAPER III – COMMUNITY REHABILITATION & DISABILITY PREVENTION
Q.P. Code: 802463

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

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

1. What is Poliomyelitis? Describe common deformities caused due to Post Polio Residual Paralysis (PPRP).
2. What are the causes of ulcers in feet of a leprosy patient? How do you prevent and treat these ulcers?
3. What do you understand by “Developmental Milestones”? Describe important milestones that a child should achieve by the age of 2 years.

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

1. Pre prosthetic management of Above Knee amputee.
2. What do you understand by screening and referral with reference to children with disabilities?
3. How the parents are important for early identification and intervention?
4. What are accessibility needs of lower limb amputees?
5. What is phantom pain? What precaution should be taken to prevent it?
6. Define Osteoarthritis of Knee and grade it.
7. Write clinical features of Ankylosing spondylitis.
8. Discuss Role of P&O Professional in CBR.

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

1. Tele-Rehabilitation.
2. Specific Learning disabilities.
3. Define Autism.
4. Plantar Fasciitis.
5. How is disability described under UNCRPD?
6. Define Spasticity.
7. What is Contracture?
8. Enlist three major causes of disabilities in India.
9. Describe deformities in CTEV.
10. What are the common causes of Neuropathic foot?

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2463

BACHELOR IN PROSTHETICS AND ORTHOTICS
SECOND YEAR (Regulation 2017-2018 onwards)
PAPER III – COMMUNITY REHABILITATION & DISABILITY PREVENTION
Q.P. Code: 802463

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What are the various causes of disabilities in India? Suggest measures to prevent them.
2. Describe Home Based and Centre Based Models of Early Intervention.
3. What do you mean by Goniometry? Explain techniques of Muscle Testing.

II. Write notes on:

(8 x 5 = 40)

1. What are the different methods of pressure mapping in foot?
2. Describe preoperative evaluation and rehabilitation management of a patient of peripheral vascular disease due for Below Knee amputation.
3. Describe the physiological effects of lumbar traction.
4. Describe the principles of prevention of Post Polio Residual Paralysis (PPRP).
5. Describe with suitable examples, Prevention of Disability.
6. Describe Transfemoral Stump bandaging techniques.
7. Clarify the concept of early intervention. Discuss the role of Orthotist in the process of early intervention.
8. Describe important milestones between 0 to 3 years of age.

III. Short answers on:

(10 x 3 = 30)

1. Define Meningo-myelocoele.
2. What are communication disorders in children?
3. Enumerate common muscular dystrophies.
4. What is therapeutic exercise?
5. Muscle Tone.
6. Acute Flaccid Paralysis.
7. Common causes of nerve injuries.
8. MRC grading of Muscle strength.
9. Describe Causes of Stroke.
10. Intellectual disability.

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

[AHS 0424]

APRIL 2024

Sub. Code: 2463

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018 onwards)

PAPER III – COMMUNITY REHABILITATION & DISABILITY PREVENTION

Q.P. Code: 802463

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What is comprehensive Rehabilitation? List the members of the Rehabilitation team and explain the role of each member.
2. What is Muscular Dystrophy? Explain the types and management.
3. Explain all the Government schemes and initiatives for the PWD.

II. Write notes on:

(8 x 5 = 40)

1. What are the difference between IBR and CBR?
2. Explain the different aspects of Physical medicine and Rehabilitation.
3. What are the methods used for posture analysis?
4. List the indications and contraindications of Traction.
5. What is Electrotherapy? How this therapy is helping in pain management?
6. What is ADL? What are the assessment tools used to evaluate ADL?
7. Write the Orthotic management of club foot.
8. What is International Classification of Functioning, Disability and Health (ICF)?

III. Short answers on:

(10 x 3 = 30)

1. What is Motor unit?
2. How to measure the range of motion of hip joint?
3. How to prevent bed sores in a quadriplegic patient?
4. What are the benefits of legislative measures pertaining to the disabled?
5. What are the causes of leprosy?
6. Explain the bandaging techniques for Transtibial amputee.
7. Explain the importance of Goniometry.
8. What are the different movements possible in the wrist and elbow joint?
9. Exercise therapy.
10. Rehabilitation of a mentally retarded person.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 2463

BACHELOR IN PROSTHETICS AND ORTHOTICS

SECOND YEAR (Regulation 2017-2018 onwards)

PAPER III – COMMUNITY REHABILITATION & DISABILITY PREVENTION

Q.P. Code: 802463

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Write the causes of Paraplegia and write about its management.
2. List the role of Rehabilitation team in the management of a Geriatric patient after a fall.
3. Write about early identification and early intervention.

II. Write notes on:

(8 x 5 = 40)

1. List the benefits of Electrotherapy.
2. What are the different types of exercises prescribed based on muscle power?
3. Write the principles of Stump Bandaging.
4. Explain about Telemedicine. List its advantages.
5. List the advantages of Institutional Based Rehabilitation.
6. What is Club Foot? Explain about its management.
7. Write about the International classification of function, disability and handicap.
8. Write about normal milestones in child development.

III. Short answers on:

(10 x 3 = 30)

1. Explain about normal posture.
2. What are the benefits of muscle stretching?
3. What is play therapy?
4. What are the benefits of exercises?
5. List members of a Rehabilitation team.
6. How to prevent falls in elderly?
7. What is Hydrotherapy?
8. Role of P and O in CBR.
9. Write about Government schemes to help the differently abled.
10. Write about Rehabilitation of a Speech Impaired Person.
