

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER
SYLLABUS OF SCREENING TEST FOR THE POST OF
ASSISTANT PROFESSOR – PHYSICAL MEDICINE &
REHABILITATION
MEDICAL EDUCATION DEPARTMENT

1. Basic Sciences as Applicable to P M R
 - Basic surgical techniques and basics of skin grafting as applicable to PMR
2. History and Scope of PMR, Definitions and Terminology
3. Understanding Disability
4. Community Based Disability Prevention and Rehabilitation
5. Legislations, Acts and Policies related to disability
6. Disability Assessment and Certification
7. Schemes and Benefits for persons with disabilities (PWDs)
8. Clinical Evaluation of Patients in P.M.R. and Documentation
9. Quality and Outcome Measures in PMR e.g., FIM, Barthel Index, GMFCS, FMS etc.
10. Diagnostic Tests, utility & interpretation in relation to PMR
11. Therapeutic Exercises (including PNF & NDT)
12. Electro Therapy and Physical Modalities e.g., SWD, IFT, Ultrasound etc.
13. Electro diagnostic Medicine – EMG/NCV/Evoked potential studies/Audiometry
14. Pharmacotherapy in PMR
15. Gait and its Deviations, Gait Analysis
 16. Orthotics: Principles of orthotic prescription, biomechanics
 17. Prosthetics: Principles of prosthetic prescription, biomechanics
18. Wheel chairs, Seating Systems and Ambulatory Devices
19. Principles and scope of Occupational Therapy
20. Principles and scope of Physical therapy
 - Assessment and execution of exercise and physical modalities
21. Vocational and Psycho Social evaluation and rehabilitation
22. Rehabilitation of Patients with Amputations
23. Spasticity Management
 - Pathophysiology, Medical Management, Corrective and Surgical Management, Chemodenervation & Prescription of orthoses
24. Holistic Rehabilitation of Cerebral Palsy
25. Pediatric Rehabilitation including children with Autism Spectrum Disorders, learning disabilities and multiple disabilities, etc.
26. Rehabilitation interventions in patients suffering from endocrinological / metabolic disorders / metabolic syndromes, causing impairment, functional limitation or participation restriction
27. Rehabilitation of Patients with Neck and Back Pain
28. Rehabilitation of Patients with Arthritic & Rheumatological conditions

- Clinical evaluation, assessment of disability, impairment and functional limitation
 - Comprehensive management including monitoring of disease control
29. Rehabilitation and management of Patients with Pain
- Pathophysiology, Comprehensive Management and Rehabilitation of painful conditions including Neuropathic, musculoskeletal, somatic aspects, cancer pain, migraine, fibromyalgia, myofascial pain, trigeminal neuralgia, glossopharyngeal neuralgia etc.
 - Various peripheral & neuraxial blocks including clinical anatomy & rationale, Joint & soft tissue injections
 - Chronic pain management, education & rehabilitation
30. Essentials of Occupational Health
30. Rehabilitation of Cumulative Trauma Disorders including common occupational disorders
31. Management & Rehabilitation of Musculoskeletal Conditions of Upper and Lower Limbs and spine including infections, degenerative disorders, tendinopathies, and its sequelae, etc.
32. Rehabilitation of Patients with Spinal Cord Injury (SCI)
- Introductions, Epidemiology and need; Models of Care
 - Anatomy, Mechanics and Syndromes of Traumatic Injury
 - Non-Traumatic SCI; Outcomes
 - Acute Phase Management: Conservative & Surgical
 - Comprehensive Rehabilitation
 - Complications and their management
33. Stroke Rehabilitation
- Introduction, Pathophysiology and Risk Factors
 - Comprehensive Rehabilitation in the acute, sub-acute and chronic phases
 - Medical and therapeutic management of complications and Special Problems& needs
34. Rehabilitation of Patients with Traumatic Brain Injury
- Epidemiology, Prevention, Pathophysiology, Prognosis
 - Comprehensive Rehabilitation in the acute, sub-acute and chronic phases
 - Recent advances in Traumatic Brain Injury management and rehabilitation
36. Rehabilitation of Patients with other Neurologic Disorders
- Rehabilitation of Patients with Peripheral Neuropathies, nerve injuries
 - Rehabilitation of Patients with Hansen's Disease and anesthetic limbs
 - Rehabilitation of plexopathies, Motor Neuron Diseases (MND)
 - Rehabilitation of Patients with Poliomyelitis
 - Post Polio Residual Paralysis (PPRP) (conservative and surgical management of deformities around each joint)
 - Rehabilitation of Patients with Diseases of Muscles & Myoneural Junction Muscular dystrophies, Myopathies, Myasthenia gravis, polymyositis, dermatomyositis, etc.
 - Rehabilitation of Patients with Movement Disorders and other neurodegenerative disorders, ataxia, multiple Sclerosis.

- Other Infective and Inflammatory disorders causing neurologic impairments necessitating rehabilitation
37. Rehabilitation of Patients with Neural Tube Defects rehabilitation, Long Term Complications
 38. Neurogenic Bladder and Bowel Dysfunction & Management
 39. Prevention and Management of Chronic Wounds
 40. Speech and Hearing-Assessment and Rehabilitation
 - Basic knowledge of hearing aids
 - Types of speech disorders: Communication skills & interventions
 - Basics of sign language
 41. Rehabilitation of Swallowing Disorders
 42. Visual Rehabilitation
 - Common causes of blindness and low vision in India and its prevention
 - Assistive devices / technology for the visually impaired
 43. Assessment, counseling and interventions for Sexual Dysfunctions in persons with disabilities
 44. Rehabilitation of patients with HIV/AIDS
 45. Principles of rehabilitation of persons with mental retardation
 46. Principles of rehabilitation of persons with mental illness
 47. Management of sports injury
 - Complete assessment of sports performance
 - Treatment and medical rehabilitation of persons of sports injuries
 - Taping and therapeutic exercises, Sports psychology & Post-injury rehabilitation
 48. Principles and procedures in Burn Rehabilitation
 49. Pulmonary Rehabilitation
 - General principles, Conditions like COPD, bronchiectasis, etc.
 50. Cardiac Rehabilitation
 - General principles, Rehabilitation of Common cardiac conditions like MI, CHD, CMP, CCF, CAD, HT.
 51. Vestibular Rehabilitation
 52. Rehabilitation of patients with Peripheral Vascular Diseases
 53. Geriatric Rehabilitation
 54. Cancer Rehabilitation
 - Principles of rehabilitation of skeletal neoplasms
 - Rehabilitation of persons with long-term complications e.g., functional decline, radiation fibrosis, post-radiation weakness, myelitis etc.
 - Management of lymphedema & cancer pain
 55. Rehabilitation protocol of Joint Replacements and other orthopaedic surgeries.
 56. Rehabilitation of Patients with Congenital Deformities of upper and lower extremities like radial club hand, CTEV, CDH, AGMC etc. and Spinal Deformities
 57. Health Promotion and principles of lifestyle disorder management
 - Lifestyle disease Prevention and management
 - Management of obesity and its complications
 - Importance and ways to promote physical activity

58. Women's Health and Rehabilitation
 - Pre- and post partum rehabilitation programs
 - Post menopausal issues in rehabilitation and management of osteoporosis
59. Architectural Barriers, Environmental Modification
 - Identification of barriers, accessibility of persons with disabilities and barrier free environment
60. Organ Transplantation and Rehabilitation
61. Rehabilitation in ICU and CCU setting
62. Medical emergencies in PMR
 - Autonomic dysreflexia, Aspiration pneumonitis, DVT / PE, Urinary retention / obstruction, etc.
63. Palliative care / long-term care of terminally ill
64. Complementary and alternative medicine
65. Ethical practices in Rehabilitation
66. Evidence Based Rehabilitation
67. Research Methodology
 - Basic understanding of research methodology
 - Ability to identify research needs, formulate null hypothesis and interpret statistical analysis
68. Role of rehabilitation in Disaster Management
69. Quality assurance in PMR
70. Information & communication technology (ICT) and rehabilitation including tele-rehabilitation
71. Current Developments / Recent Advances in PMR
72. Teaching Methodology
73. Public health programme, State & National programs

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Pattern of Question Papers:

1. Objective Type Paper
2. Maximum Marks : 100
3. Number of Questions : 100
4. Duration of Paper : Two Hours
5. All Questions carry equal marks
6. There will be Negative Marking

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