RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER
SYLLABUS FOR SCREENING TEST FOR THE POST OF
ASSISTANT PROFESSOR (Broad Speciality) ORTHOPAEDICS
MEDICAL EDUCATION DEPARTMENT

Unit I
Applied and Basic Medical Sciences including Anatomy, Physiology, Biochemistry, Pharmacology, Pathology and Microbiology in relation to orthopaedics.

Unit II
BONE & JOINT- Infections (Pyogenic, Tuberculosis, Syphilis, Mycotic, Salmonella, Brucella, HIV & Viral etc.)

Unit III
Congenital anomalies and developmental deformities, their diagnosis and management in Orthopaedics.

Unit IV
TRAUMATOLOGY in general and in reference to Locomotor system. Principles of Treatment in Trauma. Peripheral Nerve Injuries. Principles of Ilizarov and its application.

Unit V
Diseases, anomalies and injuries of spine.

Unit VI
Metabolic Bone Disorders. Autoimmune Bone and Joint Disorders like Rheumatoid Arthritis, Ankylosing Spondylitis, Fluorosis, etc.

Unit VII
Bone Tumours in orthopaedics. Recent trends in limb salvage, chemo and radiotherapy.

Unit VIII
Amputations & Disarticulations through Bones & Joints of Limbs.

Unit IX
Degenerative disorders of the Extremities like Osteoarthritis of Hip & Knee Joints and

Spine (Diagnosis and Management).

Unit X
Recent Advances : Arthroscopic Surgery, Joint Replacement, Spine Surgery, CT Scan, MRI, Bone Scan, PET Scan, Bone Bank. Role of stem cells in orthopaedics. Minimal invasive technique in orthopaedics. Microscopic surgery in orthopaedics.

Unit XI
Physical Medicine and Rehabilitation including occupational Therapy, Electro-diagnosis, Electromyography. Total concept of Prosthesis and Orthotics Physical disability assessment.

Unit XII
Disaster management. Polytrauma mangement.

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Pattern of Question Papers:
1. **Objective Type Paper**
2. **Maximum Marks: 180**
3. **Number of Questions: 180**
4. **Duration of Paper : Three Hours**
5. **All Questions carry equal marks**
6. **Medium of Screening Test: English**
7. **There will be Negative Marking**
   (1/3 part of the mark(s) of each question will be deducted for each wrong answer)