

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF ASSISTANT PROFESSOR (Broad Speciality) ORTHOPEDICS 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 Tumors 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 management.

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Pattern of Question Papers:

- 1. Objective Type Paper**
- 2. Maximum Marks: 150**
- 3. Number of Questions: 150**
- 4. Duration of Paper: 2.30 Hours**
- 5. All Questions carry equal marks**
- 6. There will be Negative Marking**
(For every wrong answer one-third of the marks prescribed for that Particular question shall be deducted.)