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

1. Renal embryology, anatomy and physiology.
2. Urinary tract infection, Vescio-ureatric reflux, Structural malformations, (including CAKUT), Disorder of micturation and Neurogenic bladder.
3. Haematuria, Proteinuria, Glomerular disease (primary and secondary including diabetes mellitus in paediatric age group).
4. Systemic lupus erythematosus, Haemolytic uraemic syndrome and Other vasculitis.
5. Interstitial nephritis and Renal hypertension.
6. Renal tubular disorders, Nephrolithiasis, Cystic disease and Other genetic disorders.
7. Fluid and electrolyte disorders including nephrological emergencies.
8. Acute kidney injury including tropical renal diseases.
9. Chronic kidney disease.
10. Kidney transplantation.
11. Dialysis: Haemo-Dialysis (HD) and Peritoneal- Dialysis (PD).
12. Renal pharmacology and Nutrition in renal diseases.
13. Teaching skill and translational research method.
14. Competency in renal practical and procedural skill :
    a. Renal biopsy, Central vascular access, Haemo - Dialysis (HD, SLED, CRRT), Peritoneal - Dialysis (IPD, CAPD).
    b. Investiganional skill including Haematology, Biochemistry, Urine examination, Radiology (X-ray, USG, CT, MRI etc.), Histo-pathology and Nuclear imaging.
    c. Clinical practical urology including catherization, cystoscopy, per- cutaneous nephrostomy and others.
15. Adult nephrology practice relevant to paediatric population such as early presentation of adult renal diseases in paediatric age group.

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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)