

SYLLABUS FOR THE POST OF DIALYSIS TECHNICIAN
GR II IN HEALTH SERVICE DEPARTMENT

1. MODULE 1 (10 MARKS)

A. PHYSIOLOGIC PRINCIPLES OF DIALYSIS AND UREA KINETIC MODELLING (4 MARKS)

B. PRODUCT WATER & HEMODIALYSIS SOLUTION (6 MARKS)

2. HEMODIALYSIS APPARATUS(10 MARKS)

MACHINES AND BLOOD CIRCUIT (6 MARKS)

DIALYSERS (4 MARKS)

3. ACCESS FOR HEMODIALYSIS -TYPES, COMPLICATIONS AND MANAGEMENT (10 MARKS)

VENOUS CATHETER ACCESS (4 MARKS)

ARTERIOVENOUS ACCESS (6 MARKS)

4. HEMODIALYSIS PRESCRIPTION, REUSE , ANTICOAGULATION (10 MARKS)

ACUTE AND CHRONIC HEMODIALYSIS PRESCRIPTION (3 MARKS)

DIALYSER REUSE AND DISPOSAL (3 MARKS)

ANTICOAGULATION IN HD (2 MARKS)

DYSINFECTION AND STERILE PRECAUTIONS(2 MARKS)

5.COMPLICATIONS OF HEMODIALYSIS AND ITS MANAGEMENT (10 MARKS)

6. CONTINUOUS RENAL REPLACEMENT THERAPY (10 MARKS)

- INDICATIONS ,TYPES OF CRRT , COMPARISON OF DIFFERENT TYPES OF CRRT , PRESCRIPTION , EQUIPEMETS ,ADVANTAGES & DISADVANTAGES , COMPLICATIONS.

7. RECENT ADVANCES IN HEMODIALYSIS AND BLOOD BASED THERAPIES OTHER THAN HD & CRRT (10 MARKS)

PLASMAPHERESIS (2 MARKS)

FREQUENT HEMODIALYSIS (1 MARK)

HEMODIAFILTRATION AND HEMOFILTRATION (2 MARKS)

HEMOPERFUSION (2 MARKS)

SORBENT DIALYSIS (1 MARKS)

HIGH FLUX AND HIGH EFFICIENCY DIALYSIS (2 MARKS)

8. CLINICAL PROBLEM AREAS IN DIALYSIS (10 MARKS)

CHRONIC KIDNEY DISEASE (1 MARK)

NUTRITION (1 MARKS)

INFECTIONS AND INFECTION CONTROL PRACTICES IN CKD
(2 MARKS)

BONE DISEASES IN CKD (1 MARK)

DIALYSIS IN CHILDREN / DIALYSIS IN PREGNANCY (1 MARK)

HYPERTENSION ,DIABETES MELLITUS (1 MARK)

ADEQUACY OF HEMODIALYSIS (2 MARKS)

RENAL FUNCTION TESTS (1 MARK)

9. PERITONEAL DIALYSIS (ALL EXCEPT COMPLICATIONS) (10 MARKS)

PHYSIOLOGY ,APPARATUS , PERITONEAL ACCESS DEVICES , TYPES
OF CAPD ,PRESCRIPTION , ADEQUACY OF CAPD

10. A . COMPLICATIONS OF PERITONEAL DIALYSIS (5 MARKS)

PERITONITIS AND EXIT SITE INFECTION , METABOLOIC
COMPLICATIONS, MECHANICAL COMPLICATIONS

B. BASIC NEPHROLOGY (5 MARKS)

BASIC ANATOMY AND PHYSIOLOGY OF KIDNEY, HISTORY OF
DIALYSIS , ACUTE RENAL FAILURE , CHRONIC KIDNEY DISEASE

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper