

## SCHEME AND SYLLABUS OF EXAMINATION FOR THE PURPOSE OF FILLING UP THE POST OF HEMODIALYSIS TECHNICIANS UNDER THE SIKKIM STATE SUBORDINATE ALLIED AND HEALTHCARE SERVICE.

I. The mode of examination and setting-up of question-papers shall be both, i.e., conventional type and objectivestype MCQs in paper I and II. The candidates are required to answer the objective type MCQs in the OMR Sheets and are required to follow the guidelines provided in the OMR Sheet while answering the questions.

## II. The subject wise allotment of maximum marks shall be as under:

Syllabus:-	DADEDI	50 marks
General English	PAPER I	30 marks
General Knowledge Main Paper Hemodialysis Techniciancourse	PAPER II	100 marks
		180 marks
TOTAL		20 marks
Viva voce/ interview Grand Total		200 marks

## III. Syllabus for written examination for Hemodialysis Technicians : -

Sl. No. Course		Course
01	02	03
01	02	Anatomy & Physiology (normal kidney structure and functions)
02		Derangement of kidney functions (aetiology, clinical manifestation, diagnosis of acute and chronic renal failure)
03		Dialysis – the concept (Brief history, definition, mechanism)
04		Components of Dialysis Access, blood flow, anticoagulant, dialsate)
05		Haemodialysis – Basics (Blood circuit: tubing, pump, dialyzer, flow rate, dialysate circuit concentrates,delivery systems, flow rate)
06		Anticoagulation (Heparin, alternatives to Heparin, regional no antigoagulation)
07		Vascular access (Temporary, Permanent)
08		Dialysis water and water treatment Dialysis and Dialyzer (including reuse)
09		Haemodialysis machine



10	Complications of Haemodialysis	i). Access related complication ii). Dialyzer related complication iii). Dialysate related complication iv). Anticoagulant related complication v).Machine/Blood Pump associated complication vi).Special type of complication vii).Management of complications
		viii).Maintenance of hygiene in Dialysis unit ix). Access – core x). Anticoagulation
11	Doses of Haemodialysis	i). Duration, index, clearance ii). Middle colecules, Ura reduction ration iii). Urea kinetic modeling, Dialysis adequacy
12	Continuous Dialysis	i).Continuous arteiovenous hemofiltration ii).Continuous venovenous hemofiltration iii).Continuous hemoduafiltration iv).Continuous slow hemodialysis v).Component, access, tubing, filter, replacement, fluid, Antigoagulation, flow rate.
13	Peritoneal Dialysis	i).History, Perotioneal physiology, kinetics technique, catheter, dialysate fluid, insertion procedure, drainage, complication.  Continuous peritoneal dialysis procedure, dose.

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