

**Final Examination**  
**For Diploma in Dialysis Technique : Dialysis Technician Course**

**PAPER – III**  
**Managing Dialysis Procedure**

Time : 3 Hours

Full Marks : 80

*Question 1 is Compulsory.*  
*Answer any Two from Question No. 2 to 5 and any Four from Question No. 6*

Q-1) Answer the following:

**10x1 = 10**

- i) All of the following is done to manage Air Embolism, except:  
a) Clamp the venous blood line  
b) Stop the blood pump  
c) Patient in left recumbent position with chest & head up  
d) Administer 100% Oxygen
- ii) Sertraline may be given in Hemodialysis patient to prevent:  
a) Hypotension  
b) Hypokalemia  
c) Arrhythmias  
d) Headache
- iii) Erythropoietin is given by:  
a) S.C. & IV route  
b) IM route  
c) Intraarterial route  
d) Oral route
- iv) Vaccine is available for all, except:  
a) Hepatitis B  
b) Hepatitis C  
c) Chicken Pox  
d) Influenza
- v) Minimum vein and arterial diameter for successful AV fistula creation:  
a) 0.02mm, 0.03mm  
b) 2.5mm, 2.0mm  
c) 1 mm, 1.5mm  
d) 0.1mm, 0.03mm
- vi) Beta 2 Microglobulin is a :  
a) High Molecular weight substance  
b) Low Molecular Weight substance  
c) Middle Molecular weight substance  
d) None of the above
- vii) The number of cuffs in a Perm Cath is usually:  
a) 2  
b) 1  
c) 3  
d) 4
- viii) Target activated clotting time during routine Heparin infusion method during and at the end of dialysis :  
a) +80%, +40%  
b) +10%, +20%  
c) +100%, +100%  
d) +0%, +90%
- ix) Causes of Hypotension during Hemodialysis are all, except:  
a) Pericardial Tamponade  
b) Sepsis  
c) Erythropoietin  
d) None of the above
- x) Dialysis Solution Dextrose levels for Acute Dialysis (mg.dl):  
a) 300-600  
b) 400-800  
c) 100-200  
d) 600-700

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**PAPER – III  
Managing Dialysis Procedure**

*Answer any Two from Question No. 2 to 5 and any Four from Question No. 6*

**2x20 = 40**

Q2. Describe briefly the prevention and management of hypotension during Hemodialysis. What are the Dialyzer related complications? What is Dialysis Disequilibrium Syndrome?  
10+5+5 = 20

Q3. How will you improve the hygiene in your Hemodialysis Unit? How will you measure Hemodialysis adequacy?  
15+5 = 20

Q4. What is Peritoneal Dialysis? What are the indications and contraindications of doing a Peritoneal Dialysis? What are the complications of Peritoneal Dialysis?  
5+10+5 = 20

Q5. What are the causes of severe hyperkalemia in Hemodialysis patients? How will you treat a case of hyperkalemia if Hemodialysis initiation is delayed? How will you dialyse a patient with Serum Potassium 7 Meq/L and a patient with Serum Potassium 2.5 Meq/L? How will you dialyse a patient with Serum Sodium 115 Meq/L?  
5+5+5+5 = 20

Q6. Write short notes on (**Any Four**):- **4 x 7½ = 30**

- a) Closure of Hemodialysis.
- b) Monitoring of an AV fistula.
- c) Complications of temporary access.
- d) Yellow discolouration of Dialyzer.
- e) Treatment of Anemia in Hemodialysis patient.

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**Final Examinations**  
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**PAPER – IV**  
**Advances in Dialysis**

*Answer any Two from Question No. 2 to 5 and any Four from Question No. 6*

**2x20 = 40**

Q2. Describe the process of Hemodiafiltration. What are the clinical benefits of convective therapies? How will you prepare ultrapure water?

10+5+5 = 20

Q3. What are the indications for doing Plasmapheresis? How will you conduct Plasmapheresis? What are the complications of Plasmapheresis?

5+10+5 = 20

Q4. What are RIFLE criteria? What are the indications of starting Dialysis in Acute Renal Failure? Describe how you will conduct first session of Hemodialysis in an unconscious Snake bite patient having bleeding manifestations.

5+5+10 = 20

Q5. What is viral serology testing that are done before starting Hemodialysis? Describe Hepatitis B vaccination protocol in Hemodialysis patients. How will you conduct a Hemodialysis session in an HBsAg positive patient? How will you disinfect a Hemodialysis Machine?

5+5+5+5 = 20

Q6. Write short notes on (**Any Four**):-

**4 x 7½ = 30**

- a) Perm Cath.
- b) Complications of AV fistula.
- c) Air embolism during Hemodialysis.
- d) Timing of AV fistula creation in CKD patients.
- e) Causes and Management of Right Leg swelling in Hemodialysis patient.

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