

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2008-2009 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

05 – NEPHRO-UROLOGY NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302336

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Define acute renal failure.
b) Classify causes of renal failure and clinical manifestations with related pathophysiology.
c) Draw a nursing care plan for the patient with acute renal failure.
d) Role of nephro nurse in dialysis unit.
2. a) Define quality assurance.
b) Explain the importance of quality control in transplant unit.
c) Explain the role of nephro nurse in maintaining quality assurance in nephro unit.
d) Nursing audit in nephro unit.

II. Write notes on:

(10 x 6 = 60)

1. Psychosocial assessment of patients with nephro and urological conditions.
2. Uroflowmetry.
3. Immuno suppressant therapy.
4. Neurogenic bladder.
5. Nephrotic syndrome.
6. Management of renal emergencies.
7. Current treatment modalities for renal calculi.
8. Acute graft rejection and its management.
9. Rehabilitation of patients on dialysis and after kidney transplant.
10. Legal and ethical issues in nephro and urological nursing.

**M.Sc. (NURSING) DEGREE EXAMINATION
SECOND YEAR**

(Regulations for candidates admitted from 2008-2009 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

05 – NEPHRO-UROLOGY NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302336

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. a) Explain about etiology, pathophysiology and clinical manifestations of bladder cancer.	15	40 min.	20
b) Write in detail about rehabilitative measure for patient with bladder cancer.			
2. a) What is Dialysis and explain the different types of Dialysis in detail.	15	40 min.	20
b) Discuss the role of nurse in pre, intra and post Dialysis.			

II. Write notes on :

1. Immunology of graft rejections.	3	10 min.	6
2. Concepts of nephro and urological nursing.	3	10 min.	6
3. Quality assurance in nephrological nursing practice.	3	10 min.	6
4. In-service education in kidney transplant unit.	3	10 min.	6
5. Clinical manifestation of glomerulo nephritis.	3	10 min.	6
6. Nursing audit.	3	10 min.	6
7. Records maintained in dialysis unit.	3	10 min.	6
8. Management of urinary retention.	3	10 min.	6
9. Management of bladder trauma.	3	10 min.	6
10. Cystogram.	3	10 min.	6

**M.Sc. (NURSING) DEGREE EXAMINATION
SECOND YEAR**

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BRANCH I – MEDICAL SURGICAL NURSING

05 – NEPHRO-UROLOGY NURSING

PAPER III – CLINICAL SPECIALITY – II

Q.P. Code: 302336

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages	Time	Marks
(Max.)	(Max.)	(Max.)
17	40 min.	20

1. a) Define Urinary retention.
- b) List the different types of catheters and indications for urinary catheterization.
- c) Explain four routes used for urinary tract catheterization.
- d) Explain the collaborative care for urinary retention.

2. a) Define Kidney transplantation.
- b) Discuss the role of nurse in pre-operative and post-operative care in the kidney transplant unit.
- c) Legal aspects of donor selection – Discuss.

17 40 min. 20

II. Write notes on :

- | | | | |
|--|---|---------|---|
| 1. Renal circulation. | 3 | 10 min. | 6 |
| 2. Common assessment abnormalities of urinary system. | 3 | 10 min. | 6 |
| 3. Cystoscopy. | 3 | 10 min. | 6 |
| 4. Renal calculus. | 3 | 10 min. | 6 |
| 5. Renal trauma. | 3 | 10 min. | 6 |
| 6. Urinary Incontinence. | 3 | 10 min. | 6 |
| 7. Urinary tract infection. | 3 | 10 min. | 6 |
| 8. Renal diet. | 3 | 10 min. | 6 |
| 9. Alternate and complementary therapies for nephro and urological conditions. | 3 | 10 min. | 6 |
| 10. Trends and issues related to nephro and urological nursing. | 3 | 10 min. | 6 |

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

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BRANCH I – MEDICAL SURGICAL NURSING

05 – NEPHRO-UROLOGY NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302336

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. 70 year old man admitted in emergency department with the diagnosis of chronic renal failure. After investigations patient was advised for haemodialysis.
 - a) Define chronic renal failure.
 - b) Explain the causes and predisposing factors for chronic renal failure.
 - c) Write a nursing management for that patient.
 - d) Complications of haemodialysis.
2. Mr. Ram 80 year's old man admitted in surgical unit with the diagnosis of BPH.
 - a) Define BPH.
 - b) Clinical manifestation of BPH.
 - c) Surgical management of BPH.
 - d) Draw a care plan for Mr. Ram.

II. Write notes on:

(10 x 6 = 60)

1. Peritoneal dialysis.
2. Current trends in nephro and urological nursing.
3. Renal function tests.
4. Records maintained in dialysis unit.
5. Management of urinary diversions.
6. Graft rejections.
7. Urinary tract infection.
8. Congenital anomalies of uterus.
9. Acid base balance.
10. Renal calculi.

[LE 430]

APRIL 2014

Sub. Code: 2336

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2011-2012 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

05 – NEPHRO-UROLOGY NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302336

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Define Glomerulonephritis.
b) List the various types of Glomerulonephritis.
c) Explain the etio-pathology of Glomerulonephritis.
d) Discuss in detail the collaborative management of a patient with Glomerulonephritis.
2. Explain in detail about Renal Transplantation including the medico-legal issues.

II. Write notes on:

(7 x 5 = 35)

1. Kidney Biopsy.
2. Diabetic Nephropathy.
3. Congenital Malformations of Kidney.
4. Haemolytic Uremic Syndrome.
5. Haemodialysis.
6. Renal Diet.
7. Urinary Incontinence.

**M.Sc. (NURSING) DEGREE EXAMINATION
SECOND YEAR**

(Regulations for candidates admitted from 2011-2012 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

05 – NEPHRO-UROLOGY NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302336

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Define renal transplant.
b) Ethics in renal transplant.
c) Explain the surgical techniques and complication of renal transplant.
d) Post operative nursing care of patient undergone renal transplant based on nursing process.
2. a) Define critical care.
b) Discuss staffing pattern design and physical plan of Dialysis and kidney transplant unit.
c) Psychosocial aspects of staff in critical care unit of Dialysis and kidney transplant unit.

II. Write notes on:

(7 x 5 = 35)

1. Immunosuppressant therapy.
2. Renal abscess.
3. Nephrotic syndrome.
4. Role of Nurse in dialysis Unit.
5. Ureteral reflux.
6. Renal diet.
7. Management of renal emergencies.

M.Sc. (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2011-2012 Session onwards)

BRANCH I – MEDICAL SURGICAL NURSING

05 – NEPHRO-UROLOGY NURSING

PAPER II – CLINICAL SPECIALITY – II

Q.P. Code: 302336

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. a) Define acute renal failure.
b) Explain the etio-pathology of acute renal failure.
c) Discuss in detail the collaborative management of patient with acute renal failure.
2. Mr. X is diagnosed as having renal calculi. Explain in detail about renal calculi and discuss the collaborative management including nursing management.

II. Write notes on:

(7 x 5 = 35)

1. Peritoneal Dialysis.
2. Neurogenic Bladder.
3. Renal Hypertension.
4. Nephrotic Syndrome.
5. Urinary Diversions.
6. Kidney Injury.
7. Urinary Tract Infection.

M.Sc., (NURSING) DEGREE EXAMINATION

SECOND YEAR

(Regulations for candidates admitted from 2011-2012 Sessions onwards)

PAPER II – CLINICAL SPECIALITY - II

BRANCH I – MEDICAL SURGICAL NURSING

05 – NEUROSCIENCES NURSING

Q.P. Code: 302336

Time: Three Hours

Maximum: 75 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Mr. Gopal, 45 year old man got admitted in the ward with the diagnosis of pyelonephritis. He underwent various investigations as an outpatient before the actual treatment was initiated.
 - a) Define pyelonephritis.
 - b) Explain the causes and risk factors.
 - c) Clinical manifestations and diagnostic measures.
 - d) Write a nursing management.
2. Mr. Ramesh, 60 year old man got admitted in urological unit with the diagnosis of cancer bladder. He was advised to undergo radiation therapy.
 - a) Enumerate the causes and risk factors of cancer bladder.
 - b) Describe the clinical manifestations and diagnostic measures.
 - c) Discuss the management for this condition.
 - d) Draw a nursing care plan for Mr. Ramesh.

II. Write notes on:

(7 x 5 = 35)

1. Diet in Hemodialysis.
2. Evidence based nursing practice in nephro and urology.
3. Similarities and contrast between ARF and CRF.
4. Continuous Ambulatory Peritoneal Dialysis.
5. Urosepsis.
6. Urinary incontinence.
7. Intravenous pyelography.

[LI 430]

APRIL 2016

Sub. Code: 2336

M.Sc., (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY II
BRANCH – I MEDICAL SURGICAL NURSING
05 – NEPHRO-UROLOGY NURSING

Q.P. Code : 302336

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr. Nathan, 60 years old man was diagnosed to have Renal calculi. He was advised to undergo surgery for his problem.
 - a) Enumerate the causes and risk factors of Renal calculi.
 - b) Describe the clinical manifestations and diagnostic measures.
 - c) Discuss the surgical management for this condition.
 - d) Draw a nursing care plan for Mr. Nathan.
2. Define Quality Assurance. Explain on Professional Practice Standards and ensuring quality control in Nephrology unit.

II. Write notes on :

(7 x 5 = 35)

1. Similarities and contrast between Hemo and Peritoneal dialysis.
2. Recent advances in the field of Nephro and Urological nursing.
3. Uroflowmetry.
4. Diabetic Nephropathy.
5. Home care of Ileal conduit.
6. Role of nurse in preventing urinary problems.
7. Renal tumors.

[LJ 430]

OCTOBER 2016

Sub. Code: 2336

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
05 – NEPHRO-UROLOGY NURSING

Q.P. Code : 302336

Time : Three hours

Maximum : 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Mr. Suresh, 55 years old man got admitted with a diagnosis of cancer bladder.
 - a) List the clinical manifestations and the diagnostic studies done for a patient with cancer bladder.
 - b) Enumerate the various modalities of treatment for a patient with cancer bladder.
 - c) Write the pre and post operative nursing care plan for a patient undergoing segmental cystectomy.
2. Mrs. Rani, 64 years old lady got admitted to intensive care unit with breathing difficulty with a diagnosis of chronic renal failure.
 - a) Define chronic renal failure.
 - b) Explain the causes for chronic renal failure.
 - c) Explain the pathophysiology of chronic renal failure.
 - d) Draw a nursing care plan for Mrs. Rani.

II. Write notes on: **(7 x 5 = 35)**

1. Role of kidney in the maintenance of acid base balance.
2. Complications of peritoneal dialysis.
3. Uroflowmetry.
4. Nephrotic syndrome.
5. Renal emergencies.
6. Vascular access sites to do hemodialysis,
7. Legal and ethical issues in renal transplantation.

[LL 430]

OCTOBER 2017

Sub. Code: 2336

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)
SECOND YEAR
PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
05 – NEPHRO-UROLOGY NURSING

Q.P. Code : 302336

Time : Three hours

Maximum : 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Mr. Ramesh, 60 years old man got admitted in urological unit with the diagnosis of cancer bladder. He was advised to undergo radiation therapy.
 - a) Enumerate the causes and risk factors of cancer bladder.
 - b) Describe the clinical manifestations and diagnostic measures.
 - c) Discuss the management for this condition.
 - d) Draw a nursing care plan for Mr. Ramesh.
2.
 - a) Define urinary retention.
 - b) List the different types of catheters and indications for urinary catheterization.
 - c) Explain four routes for urinary tract catheterization.
 - d) Explain the collaborative care for urinary retention.

II. Write notes on: **(7 x 5 = 35)**

1. Cystogram.
2. Role of advance practioner in nephrological nursing.
3. Renal trauma.
4. Benign prostate hypertrophy (BPH).
5. Renal function test.
6. Ureteral reflux.
7. Evidence based nursing practice in nephro and urology.

[LN 430]

OCTOBER 2018

Sub. Code: 2336

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
05 – NEPHRO-UROLOGY NURSING

Q.P. Code: 302336

Time : Three Hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Define nephrotic syndrome.
b) Discuss the causes of nephrotic syndrome and clinical manifestations with related pathophysiology.
c) Draw a nursing care plan for the patient with nephrotic syndrome.
d) Role of nephro-nurse in medical unit.
2. a) Define Kidney Transplantation.
b) Discuss the role of nurse in pre-operative and post-operative care in Kidney Transplantation Unit.
c) Explain legal aspects of donor selection.

II. Write notes on:

(7 x 5 = 35)

1. Peritoneal dialysis.
2. Congenital anomalies of nephro-urology system.
3. Renal tuberculosis.
4. Diuretics.
5. Urinary Incontinence.
6. Lifestyle modification of patient with renal failure.
7. Urinary Tract Infection.

[LP 430]

OCTOBER 2019

Sub. Code: 2336

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING**

05 – NEPHRO-UROLOGY NURSING

Q.P. Code: 302336

Time : Three Hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Define Benign Prostatic Hypertrophy and discuss the clinical manifestations of Benign Prostatic Hypertrophy.
b) Explain the surgical management of Benign Prostatic Hypertrophy.
c) Draw a nursing care plan for the patient with Benign Prostatic Hypertrophy.
2. a) Define Chronic Kidney Failure and discuss the causes and pre-disposing factors for Chronic Kidney Failure.
b) Write a nursing management for the patient with Chronic Kidney Failure.
c) Complications of Haemodialysis – Discuss.

II. Write notes on:

(7 x 5 = 35)

1. Quality control in nephrological nursing.
2. Neurogenic bladder.
3. Vascular access sites for haemodialysis.
4. Renal calculi.
5. Acute graft rejection.
6. Renal diet.
7. Nursing audit in Nephrology unit.

[LS 430]

**DECEMBER 2020
(OCTOBER 2020 SESSION)**

Sub. Code: 2336

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
05 – NEPHRO-UROLOGY NURSING**

Q.P. Code: 302336

Time : Three Hours

Maximum : 75 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Mrs. X, 45 years old lady got admitted to emergency department with severe flank pain and was diagnosed to have Renal Calculi.
 - a) Enumerate the Types of Renal Calculi.
 - b) List the Clinical Manifestations and Diagnostic Studies done for Renal Calculi.
 - c) Write the various Modalities of treatment and draw a Nursing Care Plan for a patient undergoing surgery for Renal Calculi.
2.
 - a) Define Urinary Diversion.
 - b) Describe the types of Urinary Diversion.
 - c) Draw a Pre and Postoperative Nursing Care Plan for a Patient who has undergone Cutaneous Ureterostomy.

II. Write notes on: **(7 x 5 = 35)**

1. Physiology of Urine Formation.
2. Renal Artery Stenosis.
3. Diabetic Nephropathy.
4. Renal Abscess.
5. Nursing Care of Patient with Urinary Retention.
6. Uroflowmetry.
7. Complications after Renal Transplantation.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MSCN 0323]

**MARCH 2023
(OCTOBER 2022 EXAM SESSION)**

Sub. Code: 2336

**M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
05 – NEPHRO AND UROLOGY NURSING**

Q.P. Code: 302336

Time : Three Hours

Maximum : 75 Marks

I. Elaborate on: (2 x 20 = 40)

1. a) Define Critical Care.
b) Discuss staffing pattern, and draw the physical layout of Dialysis and Kidney Transplant Unit.
c) Psychosocial aspects of staff in Dialysis and Kidney Transplant Unit.
d) Explain ethical and legal issues of Dialysis and Kidney Transplant Unit.
2. a) Define Nephrotic syndrome.
b) Discuss the causes and clinical manifestations with related pathophysiology of Nephrotic syndrome.
c) Explain medical and nursing management of patient with Nephrotic syndrome.

II. Write notes on: (7 x 5 = 35)

1. Diuretics.
2. Management of renal emergencies.
3. Urinary Incontinence.
4. Graft rejection and its management.
5. Discusses the various alternate and complementary therapies for nephro and urological conditions.
6. Acid base balance.
7. Role of Nurse in dialysis Unit.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MSCN 0424]

APRIL 2024

Sub. Code: 2336

(OCTOBER 2023 EXAM SESSION)

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for the candidates admitted from the A.Y. 2011-2012 onwards)

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
05 – NEPHRO AND UROLOGY NURSING

Q.P. Code: 302336

Time : Three Hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mr.X, 40 year old man is admitted with complaints of fatigue, nausea, anorexia and dyspnoea. He is known case of Diabetes since 5 years. His serum creatinine is 2mg/dL and is admitted to evaluate for Chronic Kidney Disease (CKD). He is also scheduled for Kidney biopsy.
 - a) Discuss the stage of CKD based on estimated Glomerular Filtration Rate.
 - b) What will you explain to Mr.X regarding the procedure of Kidney biopsy?
Brief the specific nursing care following Kidney biopsy.
 - c) Explain the pathophysiology and clinical manifestations of CKD.
 - d) Describe briefly the management options for CKD.
2. Mr.A is in the urology ward for Kidney Transplant. His brother is donating kidney for him.
 - a) List the types of Kidney Transplant and contraindications to donate kidneys.
 - b) Draw a specific pre and postoperative Nursing Care Plan for Mr.A.

II. Write notes on:

(7 x 5 = 35)

1. Benign Prostatic Hypertrophy.
2. Etiology of Acute Kidney injury.
3. Renal calculi.
4. Prevention of Urinary Tract infection.
5. Role of nurse in emergency management of anuria and urinary retention.
6. Risk factors of nephro and urological conditions.
7. Post operative care of patient with ileal conduit.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MSCN 0724]

JULY 2024

Sub. Code: 2336

(MAY 2024 EXAM SESSION)

M.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for candidates admitted from 2011-2012 Sessions onwards)

SECOND YEAR

PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
05 – NEPHRO AND UROLOGY NURSING

Q.P. Code: 302336

Time : Three Hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mrs. R, 35-year-old female has Chronic Kidney Disease Stage IV and is considering to have Kidney Transplantation with her sister as prospective donor. In this regard, discuss the following:
 - a) Types of Kidney Transplantation and criteria for selection of donor for live donor transplantation.
 - b) Compatibility Testing and Immuno Suppressant therapy for live donor transplant.
 - c) Types of Graft rejection and its prevention.
2. Mr. M is admitted in Urology ward with Carcinoma Bladder. He has completed a course of chemotherapy and is now posted for radical cystectomy.
 - a) Briefly explain the Management options for Carcinoma Bladder.
 - b) Discuss Urinary diversions.
 - c) Draw up a Nursing Care Plan for Mr. M, specific to his condition.

II. Write notes on:

(7 x 5 = 35)

1. Urinary tract infection.
2. Identification, prevention and management of complications in Hemodialysis.
3. Management modalities of Renal calculi.
4. Diabetic Nephropathy.
5. Expanded rules for nurses in Nephrology and Urology.
6. Acute Kidney Injury.
7. Medical management of End Stage Kidney Disease.

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MSCN 1125]

**NOVEMBER 2025
(OCTOBER 2025 EXAM SESSION)**

Sub. Code: 2336

**M.Sc. (NURSING) DEGREE EXAMINATION
(Regulations for candidates admitted from the A.Y. 2011-2012 onwards)**

SECOND YEAR

**PAPER II – CLINICAL SPECIALITY – II
BRANCH I – MEDICAL SURGICAL NURSING
(v) – NEPHRO AND UROLOGY NURSING**

Q.P. Code: 302336

Time : Three Hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Mrs. G is admitted in the critical care unit. As you attend rounds with the medical team, they discuss the possibility of Mrs. G going into Acute Kidney Injury (AKI). As a nurse assigned to take care of Mrs. G, discuss the following:
 - a) Assessment of Mrs. G including RIFLE classification of AKI. (5)
 - b) Etiology of Acute Kidney Injury. (5)
 - c) Medical and Nursing Management of patients with AKI. (10)
2. Mr. A has come for his regular session of hemodialysis. He tells you that he does not feel well at home between the dialysis sessions. He has an Arteriovenous Fistula as vascular access for HD.
 - a) How will you assess Hemodialysis adequacy in Mr. A? (5)
 - b) Identify the symptoms of pulmonary oedema and metabolic acidosis. (5)
 - c) Guidelines in management of AV fistula. (5)
 - d) Possible complications during Hemodialysis and nursing interventions to prevent them. (5)

II. Write notes on:

(7 x 5 = 35)

1. Diuretics.
2. Identification and management of complications following Kidney transplantation.
3. Management modalities of Renal calculi.
4. Role of nurse in diagnostic tests related to Nephrological conditions.
5. Expanded roles for nurses in Nephrology and Urology.
6. Factors to consider while designing a Kidney Transplant Unit.
7. Etiology and Pathophysiology of Chronic Kidney disease.
