लोक सेवा आयोग

नेपाल स्वास्थ्य सेवा, मेडिसिन समूह, नेफोलोजी उपसमूह, एघारौँ (११) तहको (खुल्ला र आन्तरिक) प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

		Paper II: - Technical Subject		
1.	Gene	General		
	1.1	Anatomy of the kidney and urinary tract		
	1.2	Physiology of the kidney and urinary tract		
	1.3	Immunological basic of kidney damage		
	1.4	Pathophysiology of Haematuria		
	1.5	Pathophysiology of proteinuria		
	1.6	Physiology of fluid and electrolytes balance		
	1.7	Physiology of acid and base balance		
	1.8	Investigations related to kidney diseases		
2.	Glon	nerular diseases		
	2.1	Glomerulonephritis		
		2.1.1 Primary		
		2.1.2 Postinfections GN		
		2.1.3 Systematic disease causing glomerulonephritis		
		2.1.3.1 SLE		
		2.1.3.2 PAN		
		2.1.3.3 Good pasture syndrome		
		2.1.3.4 Wegener's Granuloma		
		2.1.3.5 Churg's strauss syndrome		
3.	Systematic diseases affecting glomerulous			
	3.1	Diabetes mellitus		
	3.2	Hypertension		
	3.3	Amyloidosis		
4.	Func	ctional defects and the Diseases of the Renal Tubules and Urinary	Tract	
	4.1	Renal tubular acidosis		
	4.2	Renal Glycosuria		
	4.3	Fanconi Syndrome		
	4.4	Urinary tract infection		
	4.5	Acute and chronic pyelonephritis		
	4.6	Renal tuberculosis		
5.	Obsti	Obstruction of the urinary tract		
	5.1	Calculous disease of the kidney and urinary tract		
	5.2	Cancer urinary bladder		
	5.3	Enlarged prostate		
	5.4	Urethral Stricture		
6.	Pigment Nephropathy			
	6.1	Rhabdomyolysis		
	6.2	Haemolysis		
7.	Drug	g induced renal disease		

Analgesics nephropathy

Malignant disease of the kidney

Hypernephroma

8.

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- 8.2 Wilm's tumour
- 9. Failure of the renal functions
 - 9.1 Acute renal failure
 - 9.2 Chronic renal failure
- 10. Metabolism
 - 10.1 Calcium and phosphorus metabolism
- 11. Renal replacement therapy
 - 11.1 Dialysis
 - 11.1.1 Peritoneal
 - 11.1.1.1 Intermittent peritoneal dialysis
 - 11.1.1.2 Chronic ambulatory peritoneal dialysis
 - 11.1.2 Haemodialysis
 - 11.1.3 Vascular access for haemodialysis
 - 11.1.4 Renal transplantation
 - 11.1.4.1 Donor–Live related or unrelated, cadaveric
 - 11.1.4.2 Pre-transplant management
 - 11.1.4.2 Post-transplant management
- 12. Congenital diseases of the kidney
 - 12.1 Hereditary nephritis
 - 12.2 Adult polycystic kidney disease
 - 12.3 Medullary sponge kidney
- 13. Renal Vascular Disease causing Hypertension
 - 13.1 Renal artery stenosis
- 14. Acid-base Balance
 - 14.1 Acidosis
 - 14.1.1 Respiratory
 - 14.1.2 Metabolic
 - 14.2 Alkalosis
 - 14.2.1 Respiratory
 - 14.2.2 Metabolic
- 15. Electrolyte Imbalance
 - 15.1 Sodium
 - 15.1.1 Hpyernatraemia
 - 15.1.2 Hypernatraemia
 - 15.2 Potassium
 - 15.2.1 Hpyernatraemia
 - 15.2.2 Hypernatraemia
- 16. Prescribing drugs in renal failure
- 17. Deit in renal Diseases

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Model Questions

- 1. A 25 years old female patient presented to the medical OPD with the complaints of generalized swelling of one month duration. She gave the history of joint pain and fever on and off. Investigation revealed:— Hb.-10gm/dl. Total WBC count 3800/cmm., Platelets 75000/cmm. & urine albumin +++
 - a) What is the most likely diagnosis?
 - b) What other investigations would you like to do?
 - c) How would you manage the case?
- 2. A young man of good build was brought to the emergency with the history of reduced urine output (250 ml. in 24 hours) of two days duration. He gives history of severe physical assault five days prior to oneset of oliguria. He remained in good health before.

Laboratory investigation:

Hb. - 12gm/dl., WBC count - 9000cmm., ESR- 20mm/1hr, N -76%, L-24%, E - 0%, M - 0%, Serum creatinine - 1400 micro.mol/I, Blood urea - 14 mmol/I, Serum sodium - 129 mmol/I, Serum K + - 6.8mmol/I, Serum Ca+-2.0mmol/I, Urine R/E & M/E-Alb.-+, WBC -3-4/Hpf., RBC - 1/2 Hpf.

- Q1. What are the significant features in the above data?
- Q2. What is the probable diagnosis?
- Q3. What test would you like to do to confirm your Diagnosis?
- Q4. How would you manage the case?
- Write down the pathophysiology of heamaturia. How would you manage a case of renal tuberculosis?
- Write down the pathophysiology of glomerulonephritis. How would you manage a case of Idiopathic Membranous glomerulonephritis?