



## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025
Programme – B.Sc.(PA)-2021/B.Sc.(PA)-2022
Course Name – Nephrology
Course Code - BPAE505A
(Semester V)

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) An elderly man develops a sudden onset of chills, fever, dysuria and acute onset of pain abdomen. He has history of prostate hyperplasia, Splitting urinary flow and had been hospitalized for acute urinary retention. What will be the provisional diagnosis? Choose the correct option.
  - a) Nephrotic syndrome

b) Acute pyelonephritis

c) UTI

- d) None of these
- (ii) A 66-year-old man has developed chronic renal failure with a serum urea of 60 mmol/L and creatinine of 650 micromol/L. Auscultation of the chest reveals a friction rub over the cardiac apex. He is most likley to have a pericarditis that is termed? Choose the correct option.
  - a) Fibrinous

b) Haemorrhagic

c) Purulent

- d) None of these
- (iii) Which of the following is not true? Identify the correct option.
  - a) Stage I CKD- GFR>= 90 ml/min/1.73 m2
- b) Stage I CKD <= 80 ml/min/1.73 m2
- c) Stage III CKD- GFR 30-59 ml/min/1.73 m2
- d) Renal failure(ESRD)- GFR< 15ml/min/1.73 m2
- (iv) Select the correct option for the site reabsorption of Retinol-binding protein.
  - a) PCT

b) DCT

c) Loop of Henle

- d) None of these
- (v) Which is considered as the 'GOLD-STANDARD METHOD for RENAL ARTERY IMAGING'-Select the correct option
  - a) CT angiography

b) MR Angiography

c) Spiral CT Angiography

- d) Arteriography
- (vi) Describe the primary function of the urinary bladder.

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	a) to produce urine	b) To store and expel urine	
/v.::\	c) To filter blood	d) To secrete hormones	
(VII)	Discuss the microscopic structure of the kidney. V		
	a) Glomerulus	b) Renal medulla	
/ <sub>V</sub> ;;;;\	c) Renal cortex Identify, Indomethacin causes:	d) Renal pelvis	
(VIII)			
	a) Closure of ductus in premature neonate     c) Closure of ductus in term & premature	b) Patent ductus arteriosus d)	
	neonates	Closure of ductus in older children also	
(ix)	Select the most common syndrome associated wi	th AV canal defect?	
	a) Down syndrome	b) Klinefelter syndrome	
	c) Turner syndrome	d) Marfan syndrome	
(x)	Identify obstruction in pulmonary stenosis may of	ccur at the following sites:	
	a) Supravalvular	b) Valvular	
,	c) Subvalvular	d) All of the above	
(xi)	Tell which of the following symptoms of rheumatimanifestation?	c fever may be the only isolated	
	a) Carditis	b) Arthritis	
	c) Chorea	d) Subcutaneous nodules	
(xii)	Which of the following is true for a child with acu	te kidney injury?	
	<ul> <li>a) Urine Specific gravity is higher in pre-renal failure</li> </ul>	<ul> <li>b) Schwartz formula uses only serum Cr to calculate GFR</li> </ul>	)
	<ul> <li>c) Greater loss of sodium through urine in pre- renal failure</li> </ul>	d) S. Creatinine value may remain normal	
(xiii)	An infant with severe dehydration secondary to d mass and blood in urine. The most probable diagr		
	a) Renal vein thrombosis	b) Pyelonephritis	
	c) Acute glomerulonephritis	d) Lower nephrosis	
(xiv)	In a child, non-functioning kidney is best diagnose	ed by:	
	a) Ultrasonography	b) IVU	
( · · · · ·	c) DTPA renogram	d) Creatinine clearance	
(XV)	Interpret, A 10-year-old girl present with polyuria hypercalciuria and metabolic alkalosis. What is th	e probable diagnosis?	
	a) Gitelman syndrome	b) Liddle syndrome	
	c) Bartter syndrome	d) Alport's syndrome	
	Group	n-R	
	(Short Answer Ty		x 5=15
			A - 1
2. W	rite a short note on Reflux Nephropathy?		(3)
3. De	3. Define glomerular filtration rate (GFR) and its clinical significance.		
	escribe the differences between Type I and Type II IPGN)	membranoproliferative glomerulonephritis	(3)
	plain the pathophysiology of Stress incontinence?		(3)
6. Di	fferentiate between nephritic and nephrotic syndr	omes.	(3)

(3)

Explain the Sign & Symptoms of Nephrolithiasis in brief?

## Group-C

(Long Answer Type Questions)	5 x 6=30
7. What is Nephrotic sysndrome? How will you differentiate between nephrotic & nephritic syndrome- write down in a tabular form.	(5)
8. A 52 years old male patient is suffering from pain & heaviness in hypogastrium, obstructed feeling during micturition & lumbago. What will be the provisional diagnosis? How will you going to differentiate between the probable pathologies?	(5)
9. Write down the Effects of NSAIDs on the kidney?	(5)
10. What is micturition reflex? Describe the pathogenesis for nocturnal anuria?	(5)
11. Explain the host defense mechanisms to prevent UTI?	(5)
12. A 27 years old male patient visited with severe anxiety & shinking sensation; which will be accompanied by hyperhydrosis, palpitations, nausea & fainting. On enquiry patient is giving	(5)
the history of sharp pain on back while over working or holding the urine for long time. Dur imaging studies, one kidney is showing the features of hydronephrosis & other is not	
visualized. What will be the provisional diagnosis? How will you going to differentiate the cato reach the confirmed diagnosis? Outline your plan of management for such a case?	se
OR	
A CO years and female matient is a small in its off at all dains for a little with the size	(=)

A 69 years old female patient is complaining of ineffectual desire for urination with burning in (5) urethra, especially after urination. Her USG is showing mild hydronephrosis of the left kidney. She has repeated history of UTI. What will be the probable diagnosis? How will you going to manage such a case? Construct a diagramatic chart to justify your answer?

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