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## BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Science in Physician Assistant Course Name - Nephrology Course Code - BPA504 (Semester V)

Time: 1 Hr.15 Min. Full Marks: 60 [The figure in the margin indicates full marks.] Group-A (Multiple Choice Type Question) 1 x 60=60 Choose the correct alternative from the following: (1) Following are the parts of glomerulus except, a) PCT b) Afferent arteriole c) Efferent arteriole d) Macula densa (2) Which of the following is not a part of Urine formation a) Glomeruilar filtration b) Tubular reabsorption c) Autoregulation d) Concentration (3) Reflex into pelvis and calyces without dilation a) I b) II c) II d) IV (4) According to American Urology Association, definition of microscopic hematuria: a) > 5 RBCs/hpfb) > 15 RBCs/hpfc) > 50 RBCs/hpfd) > 10 RBCs/hpf(5) Renal autoregulation is the ability of the kidneys to b) decrease glomerular filtration in hypotension a) increase glomerular filtration in hypotension c) maintain a relatively stable GFR inspite of th d) decrease GFR if BP is high. e changes in BP (6) Mechanisms of proximal tubular reabsorption are all, Except a) Solvent Drug b) Active transport of Na+ c) Secondary water reabsorption via osmosis d) Osmotic absorption of glucose (7) Which of the following is not true a) Stage I CKD <= 80 ml/min/1.73 m2 b) Stage III CKD- GFR 30-59 ml/min/1.73 m2 c) Stage I CKD- GFR>= 90 ml/min/1.73 m2 d) Renal failure(ESRD)- GFR< 15ml/min/1.73

m2

(8) All are at risk for developing CKD, Except	
a) Hypertension	b) Auto immune diseases
c) Diabetes mellitus	d) Hyperthyroidism
(9) A 60 years old male patient comes to the OPD vours, He has history of hypertension which is prover abdominal pain for last few hours. On exalower abdomen, He has probably	mination a diffuse bulge is noted in the
a) Acute renal failure with anuria	<ul> <li>b) Bladder outlet obstruction due to prostatic en largement</li> </ul>
c) All of these	d) None of these
(10) In prerenal Azotemia, all are false except	
a) Plasma BUN : CR < 10	b) Urine specific Gravity < 1.020
c) FENA < 2%	d) Urine osmolarity > 500
(11) Indications of Dialysis all are except	and the leading
a) Toxicity by some drugs	b) Severe metabolic alkalosis
c) Fluid overload	d) Uremia
(12) Pyelonephritis (acute) is a sudden development all except	of kidney inflammation, It is caused by
a) Kidney stones	b) UTI
c) Diabetes mellitus	d) Hypertension
(13) All are nephrotoxic drugs, Except	•
a) Aminoglycosides	b) NSAIDS
c) Amphoteriein	d) Ceftriaxone
(14) The following are true of interstitial cystis (IC/	
a) Increased daytime and night time frequency	b) No obvious pathology
c) Presence of urgency and infection	d) Suprapubic pain
(15) NIDDK criteria for IC are all false, Except	
a) Pain during passing urine	b) Bleeding during passing urine
c) Fever or chiks	<ul> <li>d) Glomerulations on endoscopy and Hunner's ulcer</li> </ul>
(16) Disadvantages of hemodialysis are all except	•
a) Efficient	b) Costly
c) Permanent access is required	d) Requires a dedicated set up
(17) All are parts of male urethra, Except	
a) Prostatic Urethra	b) Penile Urethra
c) Bladder Neck	d) Spongy Urethra
(18) Modifiable risk factors for CKD include:	
a) Diabetes	b) Hypertension
c) History of AKI	d) All of these
(19) NKF recommends the following calculator be	used to estimate GFR for CKD staging:
a) CKD-EPI	b) MDRD
c) Cockroft-Gault	d) All of these
(20) Target blood pressure in non-dialysis CKD wi	•
	b) 140/90mmHg
a) 120/80mmHg	0) 110/2011111115

c) 150/90mmHg	d) 130/80mmHg
(21) Vitamin D3 is the preferred vitamin D form to	achieve normal serum vitamin D levels
a) Vitamin D3 is not applicable	b) It is applicable
c) 1	d) None of these
(22) Urine dipstick analysis can yield information a	nbout:
a) Bence Jones protein	b) Microalbumin
c) Nitrates	d) Hemoglobin
(23) Hypokalemią can cause	
a) Central diabetes insipidus	b) Rhabdomyolysis
c) Seizures	d) ST elevation on ECG
(24) Which CKD Stage to most of the complication	ns of Kidney Failure start?
a) Stage A	b) Stage 1
c) Stage 3	d) Stage 5
(25) HCV induced immune complex disease is asso	ogiatedwith
a) Cryoglobulinemic proliferative Glomerulone phritis	b) MPGN
c) Membranous glomerulopathy	d) All of these
(26) Stains used to enhance basement membrane sta	ructurein renal biopsy
a) Hematoxylin and eosin	b) PAS
c) Jones methenamine silver	d) Masson's trichrome
(27) Following improve the biocompatibility of a d	ialysismembrane.
<ul> <li>a) More free hydroxyl groups on the membrane surface</li> </ul>	<ul> <li>b) Less free hydroxyl groups on the membrane surface</li> </ul>
<ul> <li>c) More free sulfhydryl groups on the membran e surface</li> </ul>	d) Less free sulfhydryl groups on the membran e surface
(28) Identify the wrong statement about Dialysisass	ociated Amyloidosis.
<ul> <li>a) Beta 2 Microglobulin is the amyloid precurs or protein in dialysisassociated amyloidosis</li> </ul>	<ul> <li>b) Eprodisate is the specific treatment for this condition</li> </ul>
<ul> <li>c) Carpal tunnel syndrome is often the first sym ptom</li> </ul>	d) Renal transplant may lead to symptomatic i mprovement
29) Approved systemic therapies for metastatic ren	alcancer are all EXCEPT
a) Everolimus	b) Tacrolimus
c) Temsirolimus	d) Bevacizumab
30) Which part acts as a kidney in dialysis?	
a) Dialyzer	b) Nephrolyzer
c) Kidneylyzer	d) Hemolyzer
31) How many times a week dialysis must be done	?
a) Every day	b) Once a week
c) Twice a day	d) Thrice a week
32) Where is haemodialysis carried out?	
a) Home	b) Hospital
c) Both dialysis centre and hospital	d) Dialysis centre
33) What can be a side effect of haemodialysis?	-, - m, old collice
a) Cramps	b) Weakness
c) nausea	d) All of the mentioned

(34) Which mineral must be consumed limitedly for a	personundergoing diarysis.
a) K	b) Fe
c) Zn	d) Mo
(35) Which of the following is a problem of peritonea	ıl dialysis?
a) Nausea	b) Abdominal infection
c) Insomnia	d) Respiration problems
(36) What is the difference between diet for peritonea	d dialysis andhaemodialysis?
a) More calories	b) More proteins
c) More calcium	d) More carbohydrates
(37) According to kidney dialysis, the space around t	he gut is calledas:
a) Peritoneal cavity	b) Abdominal cavity
c) Vertebral cavity	d) Renal cavity
(38) All of the following mediate Acute Kidney InjuremodynamicsEXCEPT	y(AKI) via impaired Microvascular H
a) Diuretics	b) Cocaine
c) Mitomycin	d) Sulfonamides
(39) Which of the following statement on the pharma	cokinetics of loop diuretics is false?
<ul> <li>a) Toresamide have lesser oral availability than furosemide</li> </ul>	b) The elimination half-life of toresamide is mo re than Furosemide
<ul> <li>c) Bumetanide has almost 100% bioavailability on oral administration</li> </ul>	d) Long term use of diuretics can cause diuretic adaptation and resistance
(40) Inorganic phosphate is almost exclusively reabso	orbed in
a) Proximal tubule	b) Loop of Henle
c) Distal Tubule	d) Collecting duct
(41) Which of the following is a FALSE statement ab	outPeritoneal dialysis solutions?
<ul> <li>a) Bicarbonate is the most commonly used buff er in Peritonealdialysis solutions</li> </ul>	b) Skin rash is the most commonly reported ad verse effect on theuse of Icodextrin
c) Dextrose is the osmotic agent used in conventional Peritonealdialysis solutions	d) Dual-chamber PD solutions have a low conc entration of glucosedegradation products
(42) Which of the following is NOT an extra-renal m se?	•
a) hepatic cysts	b) hepatic fibrosis
c) mitral valve prolapse	d) Aortic stenosis
(43) What treatment is not considered helpful in the	
a) tolvaptan in ADPKD	b) everolimus in cystic kidney disease secondar y to tuberous sclerosis complex
<ul> <li>c) everolimus in autosomal polycystic kidney d 'isease</li> </ul>	d) Renal transplantation
(44) 15% of creatinine is secreted from proximal tub xcreted in urine. Which of the following drugs of y either interfering with the assay or decreasing	lo not cause a rise in serum grantining b
a) trimethoprim	b) dronedarone
c) flucytocine	d) amiloride
(45) Which area of the nephron is most susceptible to	
a) Cortex	b) Glomerular apparatus
c) Proximal tubule	d) Inner medulla
	,

(AC) Where is the male site of the state of		
(46) Where is the majority of sodium reabsorbed?	13.5	
<ul><li>a) Proximal convuluted tubule</li><li>c) Ascending loop of henle</li></ul>	b) Descending loop of Henle	
,	d) Distal convuluted tubule	
(47) Which of the following is characteristic of Bartter's Syndrome?		
a) Secondary hyperaldosteronism	b) Hyperkalaemia	
c) Metabolic acidosis	d) Reduced renal concentrating ability	
(48) Which of the following is NOT a recognised cau		
a) Paracetamol poisoning	b) Hypovolaemia	
c) Hypertension	d) Corticosteroid therapy	
(49) Which of the following concerning renal blood flow is true?		
a) is 40% of the cardiac output at rest	b) can be measured using the Fick principle	
c) is higher in the medulla than the cortex	<ul> <li>d) is increased when renal nerves are stimulate</li> <li>d</li> </ul>	
(50) Acute renal failure may be distinguished from chowing?	nronic renal failure by which of the foll	
a) an increased urinary Na excretion	b) left ventricular hypertrophy on the ECG	
c) renal size on ultrasound scan	d) hyperkalaemia	
(51) Which one of the following statements is correct?		
a) reflux nephropathy is inherited as an autoso     mal recessive trait	<ul> <li>b) nephrogenic diabetes insipidus is inherited a s an autosomal dominant trait</li> </ul>	
c) Alport's syndrome affects females more seve rely than males	d) medullary sponge kidney is typically not inh erited but is a congenital condition.	
(52) Which of the following features would be expect	ted in acute tubular necrosis?	
a) Proteinuria on urinalysis	b) Red cell casts on urinalysis	
c) Urine plasma osmolality ratio is more than	d) Urinary sodium concentration greater than 3	
1:1	0 mmol/l	
(53) In which of the following circumstances would to eitin still be expected to be effective?		
a) Aluminium toxicity	b) Folate deficiency	
a) Uyperkalaemia	d) Infection	
(54) A 66-year-old man has developed chronic renal for L and creatinine of 650 micromol/L. Auscultation er the cardiac apex. He is most likley to have a per	ericarditis that is termed?	
a) Constrictive	b) Fibrinous	
c) Hemorrhagic	d) Purulent	
(55) Oliguria more likely to be due to prerenal failure	than intrinsic renal failure if:	
a) urine free of red blood cells or casts	b) urine:plasma urea ratio <3	
c) urine osmolality <350 mOsm/l	d) in the presence of hypertension, raised JVP a nd good peripheral circulation	
(56) A 30 year old man had a blood pressure of 150/100 mmHg. Clinical examination was n ormal. Which one of the following would suggest secondary hypertension?		
a) 24 hour urinary protein excretion of 1.6g (< 0.2)	b) A Creatinine clearance of 90 IIIZ/IIIII (70 11)	
c) Left ventricular hypertrophy criteria on the E	d) The presence of arteriovenous nipping on fundoscopy.	
(57) In asymptomatic chronic renal failure:		

- a) there is increase in tubular excretion of urate
- c) serum [phosphate] characteristically increase d before GFR falls to 30ml/min
- b) serum ionised [calcium] is normal
- d) increase serum [alkaline phosphotase] mainly due to liver isoenzyme
- (58) In chronic untreated renal failure which of the following findings is characteristic?
  - a) Hypokalaemia
  - c) Hypercalcaemia

- b) Hyperosmolar dehydration
- d) Hypercalcinuria
- (59) A 46-year-old woman develops nephrotic syndrome and is awaiting further tests to esta blish the underlying aetiology. In which circumstance would corticosteroids be most ef fective in reversing the nephrotic syndrome?
  - a) Membranous nephropathy
  - c) Primary amyloidosis

- b) Minimal change disease
- , d) Renal vein thrombosis
- (60) Which of the following is true concerning a 68 year old male with type 2 diabetes diag nosed with type IV renal tubal acidosis?
  - a) Aminoaciduria would be expected.
  - c) Increased Glomerular filtration rate is expect ed.
- b) Fludrocortisone treatment is effective
- d) Increased urinary bicarbonate would be expected.