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38,	
ROLL NUMBER	

WRITTEN TEST FOR THE POST OF TECHNICAL ASSISTANT (LAB) - A

DATE: 14/03/2017

TIME: 09.30 AM

DURATION: 90 MINUTES

TOTAL MARKS: 80

INSTRUCTIONS TO THE CANDIDATE

- 1. Write your Roll Number on the top of the Question Booklet and in the OMR sheet.
- 2. Each question carries 1 mark.
- 3. There will not be any Negative Marking.
- 4. Darken only the bubble corresponding to the most appropriate answer.
- 5. Marking more than one answer will invalidate the answer.
- 6. Candidate should sign in the question paper and ØMR sheet.
- 7. Candidate should hand over the question paper and OMR sheet to the invigilator before leaving the examination hall.

Signature of the Candidate

1. Gutherie's test is positive for			
A. Mucopolysaccharidosis	B. Phenyl Ketonuria		
C. Alkaptonuria	D. Galactosemia		
2. Normal range of serum sodium level is			
A. 136 – 145 mEq/L B. 9 – 11 mEd	q/L C. $3.5 - 5 mEq/L$	D. $15 - 30 \text{ mEq/L}$	
3. The decolourising agent used in Zeihl N	elson staining technique is		
A. Absolute alcohol& HNO ₃	B. Acetone		
C. Isopropyl alcohol	D. 20% H ₂ SO ₄ &90% Ethano	ol	
4. Alberts stain is used for identification of	f		
A. Corynebacterium diphtherae	B. Bacillus tuberculosis		
C. Vibrio cholera	D. Actinomycetes		
5. Common name for Christmas factor of c	7.		
A. Factor IV B. Factor VII	C. Factor IX D. Fa	actor XII	
6. Highest purity of a chemical is indicated	by the term		
A. Chemically pure	B. Commercial grade		
C. Technical grade	D. Analytical reagent grade		
7. The test for detecting indole compound			
	C. Obermeyer test D. Sc	hlesinger's test	
8. Weil Felix reaction is positive for			
	ectious mononucleosus		
	mydia infection		
9. Which one of the following is not a gluco	- 5		
A. Acetyl CoA B. Propionyl CoA	C. Pyruvate	D. Lactate	
10. Programmed cell death is called			
A. Proptosis B. Apoptosis	C. Necrosis	D. Cytolysis	
11. Benzidine test is for detecting			
A. Bile salt B. Bile pigments	C. Blood	D. Protein	
12. Life span of RBC is			
A. 60 days B. 120 days	C. 30 days	D. 50 days	
13. Normal WBC count is		and representations of the	
A. 4000 – 11000/cubic mm	B. 2000-4000/cubic mm		
	D. 2 lakhs – 3 lakhs/cubic m	ım ·	
14. The double oxalate mixture used as an ar			
potassium oxalate in the ratio	8		
•	C. 2:1 D. 3:1		
15. Agar is a polymer of	D. 0.1	8	
	icosamine D. Sulphated	galactose	
16. Iron deficiency anemia can be caused due		Buildetose	
A. Round worm B. Hook worm		orm	

17. Which of the foll	owing is an indic	cator of incr	eased turno	ver of cells	
A. Urea	B. Bilirubin	C. N	I yoglobin	D. Ur	ic acid
18. Cholic acid is for	med from	i.			
A. Choline	B. Cholestero	C. G	lycine	D. Glu	utamic acid
19. The test for bile	pigment in urine	is			
A. Fouchet's test			hloride test	D. Ha	y's test
20. The definitive ho	st for Toxoplasn	na gondi is			
A. Mouse	B. Bat	C. C	at	D. Do	g
21. Vanillyl Mandelie	c Acid is the meta	abolic produ	ict of	*	
A. Histidine	B. Phenyl alal	linine C. '	Γryptophan	D. Pro	oline
22. Following are the	e non lipid bio m	arkers of ca	rdiac diseas	es except	
A. Homocysteine			triuretic per		9
.C. Malondialdeh	yde	D. High sen	sitive C read	tive protei	n
23. The main reaction	n by which amm	onia formed	d from prote	in is	
A. Non oxidative	deamination rea	actions	B. L- ami	noacid oxid	dase reaction
C. Trans deamin	ation reaction		D. Trans	amination	reaction
24. Leishman stain c	ontain				
A. Methyl red	B. Sudan blac	k C.	Methylene b	lue D.	Neutral red
25. The mineral defic	cient in milk is				
A. Zinc	B. Iron	C. Calcium	D.	Phosphoru	ıs
26. Detoxification pro	ocess occur in				
A. Kidney	B. Spleen	C. Liver	D.	Muscle	
27. Which one of the	following is not	an ingredie	nt in Drabkii	n solution	
A. Potassium cya	nide	B. Potassiui	m ferricyani	de	
C. Sodium carbon	nate	D. Sodium o	chloride		
28. Normal serum cr	eatinine level is				
A. 2 - 5 mg/dl	B. 0.7 - 1.4mg	g/dl C. 9	- 11mg/dl	D. 0.2	- 0.8mg/dl
29. Hemolysed blood	l sample shows				
A. Increased leve	l of serum sodiu	mı B.	Increased le	vel of seru	m potassium · · ·
C. Decreased leve	el of serum pota	ssium D.	No change in	n serum po	tassium or sodium level
30. Which one of the	following is not	used as a fix	ative in hist	opathologi	c technique
A. Formic acid	B. Formalin	C. Me	ercuric chlor	ide	D. Formol saline
31. The test which ca	n not be perforn	ned on a ser	um sample i	S	
A. Homocysteine	B. Ferr	itin	C. Clotting	factors	D. Total lipid
32. Which one of the	following condit	ion is not in	cluded in Ga	rrod's tetr	ad
A. Alkaptonuria	B. Albir		C. Cystinu		D. Cystinosis
33. Sickle cell disease	is due to defect	in			*
A. Heme formation	n B. Alph	a chain	C. Beta ch	ain	D. None of the above

34. The following are true related to Tubero	culin test except		
A. Injected subcutaneously	B. Injected intra dermally		
C. Read after 48 - 72 hours	D. Indurations >10mm in diameter is positive		
35. Which one of the following is not used	as an urine preservative		
	ric acid C. Thymol	D. Toluene	
36. How much quantity of 10% Sulphuric a	cid required to make 500 m	of 5% solution	
of H2SO4			
A. 250 ml B. 100 ml	C. 50 ml D. 20	00 ml	
37. Which one of the following is used to en	nbed tissue after processing	g	
A. Liquid nitrogen B. Agar			
38. Formimino glutamic acid excretion test			
A. Thiamine deficiency		0.8	
C. Folic acid deficiency	D. Ascorbic acid deficiency	V	
39. The term microalbuminuria is used whe	1. The control of the		
A. Less than 300 microgram/day			
	D. Less than 1 gm/day		
40. The major antibody of secondary immu			
A. IgA B. IgG	C. IgM D. Igl	E	
41. Which of the following gas is used as a d	0		
A. Nitrous oxide B. Carbon dioxide		D. Ethylene oxide	
42. Lowenstein-Jensen medium is for cultiva	-	and another statement	
	C. Nisseria	D. Tubercle bacilli	
43. The end product of purine catabolism is			
A. Urea B. Uric acid	C. Creatinine	D. Ammonia	
44. Molality indicates			
A. Moles/kg B. Moles/liter	C. Kg/liter	D. Microgram/ml	
45. Which one of the following is not a comp	77.5	o ,	
	yl alcohol		
	a dimethyl aminobenzaldeh	ıvde	
46. Sabin viral vaccine is a	•		
A. Live vaccine B. Killed vacc	ine C. Viral product	D. Sub unit vaccine	
47. The autoclave machine operate on the ba			
	perature below 100 C		
	rowave		
48. Specific gravity of normal urine is			
A. 0.8 to 1 B. 1.007 to 1.010	C. 1.040 to 1.050	D. 1.015 to 1.025	
19. Widal test is positive for	STATE OF THE STATE	g g	
	C. Typhus fever D. Hel	licobacter	
50. The vaccutainer tube with clot activator			
A Red can tube B Lavender can tube			

51. The most common anticoagulant solution used in blood for transfusion is
A. Oxalate mixture B. EDTA solution
C. ACD solution D. Fluoride and oxalate mixture
52. Which one of the following is not used as a disinfectant in a lab
A. Formaldehyde B. Acetaldehyde C. Gluteraldehyde D. Phenolic solutio
53. Which one of the following is not an ingredient in mixed acid reagent used for urea
estimation by DAM method
A. Concentrated Sulphuric Acid B. Concentrated Nitric Acid
C. Orthophosphoric Acid D. Cadmium Sulphate
54. The immediate first aid measure reagent required in a lab where there is regular usage o
cyanide is
A. Fresh ferrous hydroxide B. Freshly prepared ammonium sulphate
C. Freshly prepared ferrous sulphate D. Freshly prepared sodium nitroprussid
55. Normal serum bilirubin level is
A. 2 – 8 mg/dl B. 1 - 2 mg/dl C. 0. 2 – 0. 8 mg/dl D. 0.01 – 0.2 mg/dl
56. For the conversion in to SI unit the glucose in mg/dl is multiplied with the factor
A. 0.0556 B. 17.1 C. 10 D. 0.0249
57. In serum electrophoresis pattern albumin fraction is seen
A. Very near to point of application B. Far away from the point of application
C. In and around the point of application D. Between $\alpha 1$ and $\alpha 2$ globulin fractions
58. Metabolic screening test for homocystinuria is
A. Benedict's test B. Cyanide nitroprusside test
C. Ferric chloride test D. Methyl amine test
59. Total body water content is
A. 40% of the total body weight B. 30% of the total body weight
C. 20% of the total body weight D. 60% of the total body weight
60. Kernicterus develops when the serum bilurbin exceeds
A. $> 20 \text{ mg/dl}$ B. $> 10 \text{ mg/dl}$ C. $> 2 \text{ mg/dl}$ D. $> 1 \text{ mg/dl}$
61. Which one of the following is a nuclear fixative
A. Formol Saline B. Helly's fluid C. Flemming's fluid D. Acetic acid
52. Hay's test is for detection of
A. Bile salts in urine B. Bile pigments in urine
C. Blood in urine D. Haemoglobin in urine
3. The complementary colour of the solution for green filter is
A. Red color B. Green color C. Bluish green color D. Purple color
4. The most abundant solute in normal urine is
A. Urea B. Uricacid C. Creatininine D. Calcium
5. Scurvy is due to deficiency of
A. Folic acid B. Ascorbic acid C. Lipoic acid D. Pantothenic acid

66. Normal Album	min Globulin ratio is			
A. 0.8: 1	B. 1.3: 1	C. 3.5: 1	D. 2.5	5: 1
67. Normal avera	ge platelet count is	Υ.		
	300,000 /μl E	3. 4.2 - 5.4 million/	μl	
C. 4000 - 110	000/μl	0. 4.7 -6.1million/μ	l	
	L level from 210mg%	6 cholesterol, 180 r	ng% triglyceri	ide, HDL 40 mg%
A. 134 mg%	B. 98 m	g% C. 70	mg/dl	D. 166 mg%
69. The following	bio molecules are in	volved in iron abso	rption except	152
	n B. Ferritin C			
70. Which one of	the following is not	a function of albun	nin	
A. Maintenan	ce of osmotic pressur	e B. Tra	ansport of ami	no acids
C. Transport	of free fatty acids	D. Tra	ansport of calc	cium
	the following is not la	aying egg in small i	ntestine	
A. Hook worn	n B. Pin w	orm C. Taj	oe worm	D. Round worm
72. Number of we	ells in a standard mici	ro plate in ELISA is		
A. 100	B. 98	C. 96	D. 90	
73. Immunoglobu	lin elevated in allergi	ic conditions		
A. IgG	B. IgM	C. IgD	D. IgE	E
74. Antigen not fo	und in Rh negative p	erson is		# R
A. Dantigen	B. A Antigen	C. B Antigen	D. H A	Antigen
75. In tuberculous	meningitis which o	ne of the following	is not correct	
A. Sugar conte	ent in CSF is high	B. Sugar cont	ent in CSF is l	ow
C. Protein con	tent in CSF is high	D. Cobweb ty	pe coagulatio	n
76. The most impo	ortant buffer system	in the plasma is		
A. Hemoglobii	n buffer	B. Phosphate	buffer	
C. Bicarbonate	e buffer	D. Protein bu	ffer	
77. The significan	ce of pentose phosph	ate pathway is pro	duction of	(30)
A. NADH	B. FADH	C. NADPH	D. AT	P
78. The test which	is not used to monit	or a patient's coag	ulation status	is
A. PT	B. APTT	C. D dimer	D. AA'	T
9. Concentrated	acid is diluted by add	ing		
A. Acid slowly	to water	B. Wa	ter slowly to a	cid
C. Water and a	icid are added togeth	er D. Nor	ne of the above	е
0. Fetal hemoglol	oin consists of		*	
A. 2 α & 2β ch	ain B. 2 v & 1	2ß chain C. 2£ 8	& 2α chain	D. 2 α & 2v chair