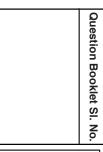
Question Booklet Alpha Code





Total Number of Questions: 100 Time: 75 Minutes

Maximum Marks: 100

INSTRUCTIONS TO CANDIDATES

- 1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. A, B, C & D.
- The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
- 6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- Each question is provided with four choices (A), (B), (C) and (D) having one correct answer.
 Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disgualification of the candidate.

A -2-

1.	The process of formation A) Glycolysis C) Glycolysis	tion of glucose from la	lactate is called as B) Gluconeogenesis D) Lipogenesis				
2.	Presence of protein in A) Rotheras test C) Benedicts test	n a sample of urine is	B)	ected by Benzidine test Heat coagulation	test		
3.	Optimal levels of LDL A) <100mg/dl C) 100-150mg/dl	. Cholesterol is	•	>150mg/dl >200mg/dl			
4.	Glycosidic linkage pre A) $\alpha (1-1)$	esent in sucrose is B) α (1 – 2)	C)	α (1 – 4)	D) β (1 – 4)		
5.	Clearance of a substa A) $C = U\sqrt{V/P}$	ance is given by the fo B) C= UV/P		ulae C= UP/V	D) √UV/P		
6.	According to Beer's la A) Transmittance C) Path length	aw, concentration of a	B)	yte in a solution is Absorbance Cuvette thickness	directly proportional to		
7.	To prepare 10ml of 6 of Conc.HCl is 12) A) 5ml	N HCI, the volume of B) 0.5ml		ncentrated HCl req	uired is (Normality D) 2.5ml		
8.	The ideal blood collect A) Heparin C) Sodium citrate	ction tube for Glucose	B)	timation is EDTA Sodium fluoride			
9.	The fraction of protein A) α-globulin C) Albumin	n that moves faster wh	B)	subjected to prote β -globulin γ -globulin	ein electrophoresis is		
10.	Serum Total Protein (A) 1:1	of a 55 yr. old male is B) 1:3	_	dl, 'Serum Albumiı 3 : 1	n is 3g/dl. A/G ratio is D) 2:1		
11.	When subjected to uri 5 cm, the R _f Value is A) 0.83	ine aminogram, the so		nt front was 6 cm a	nd solute front was D) 0.5		

Α

12.	Glass Cuvettes must not beA) Mild detergentsB) EthanolC) Dichromate solutionD) Concentrated HCI	oe cleaned with		
13.	Which of these is not a med. A) Hexokinase B) Glucokinase C) Glucose oxidase-perox D) O-toluidine		ng blood glucose ?	
14.	All of these are Ketone bo A) Acetone C) Acetate	dies except	B) Acetoacetate D) β-hydroxy butyrat	e
15.	The co-factor required for A) NADH B)	transamination re NADPH	eactions is C) TPP	D) PLP
16.	Bile salts and Bile pigmen A) Obstructive jaundice B) Hepatic jaundice C) Pre-hepatic jaundice D) Latent jaundice	ts in urine are see	en in	
17.	When a molecule absorbs wavelength it is called	light at one wave	elength and reemits li	ght at a longer
	A) AbsorbanceC) Fluorescence		B) PhosphorescenceD) Transmittance	Э
18.	Following were the lipid poserum Triglyceride-150mg Serum Total Cholesterol-2 Serum HDL Cholesterol-4 The Serum LDL Cholester A) 100mg/dl C) 90mg/dl	g/dl 200mg/dl 0mg/dl	45 yr. old male B) 130mg/dl D) Insufficient data t	o calculate

19.	If the Blood urea of a	a patient is 85.6, then	Blood urea Nitrogen	would be
	A) 20	B) 30	C) 40	D) 50
20.	A) Red tube, GreenB) Lavender tube, GC) Red tube, Green	draw of blood sample tube, Lavender tube, Grey tube, Green tube tube, Grey tube, Lave Green tube, Red tube,	Grey tube , Red tube ender tube	
21.		50μl Diluent 00μl Diluent	•	nt showed very high
22.		of an Urine sample was specific gravity of the B) 1.010		0°C. After correcting D) 1.025
00	Transporting of bloo	d cample in iconcal; i	required for the eatin	matian of
23.	A) Ethanol	d sample in icepack is	B) Ammonia	nation of
	C) Testosterone		D) Prolactin	
	C) Testosterone		D) Floiaciili	
24.	VLDL should not be	calculated if serum tri	iglyceride is greater th	nan
	A) 300mg/dl		B) 200mg/dl	
	C) 400mg/dl		D) 500mg/dl	
25.	• •	erties of an ideal qual		ept
	,	be to similar to patien	nt sample	
	B) Should be stable	· .		
	•	imum vial to vial varia	•	
	D) Lyophilized contr	rols are convenient tha	an liquid controls	

A -5-

26.	 Which of the following is a Gram positive b A) Acinetobacter baumanii B) Corynebacterium diphtheriae C) Neisseria meningitides D) Moraxella catarrhalis 	acte	eria ?
27.	Disinfection removes from		
	A) All microorganismsC) Chemical toxins	•	Bacterial spores Pathogenic organisms
	,	,	
28.	All the following discs are used to test a except	Anti	biotic sensitivity for Pseudomonas
	A) Ceftazidime	B)	Ciprofloxacin
	C) Gentamicin	D)	Vancomycin
29.	What is the rate of HIV transmission by a c	ont	aminated needle prick?
	A) 0.03% B) 0.3%	C)	3% D) 30%
30.	Which of the following is an agglutination to	est '	?
	A) HBsAg test	•	Elek's Gel test
	C) Western Blot test	D)	Widal test
31.	Which of the following is an anaerobic culture		
	A) Alkaline pyrogallol methodC) Petroff's method	,	Castaneda method Slide culture method
	,	ט)	Slide Culture Metriod
32.	The protective HBV antibody level is A) 0.1 mlU/ml B) 1 mlU/ml	C	10 mlU/ml D) 100 mlU/ml
	,	C)	10 mo/mi
33.	MIC of an antibiotic can be tested by A) E test method	D/	Kirby Rayar mathad
	C) PCR method	-	Kirby-Bauer method Stoke's method
2/	Bile aesculin test is to	,	
04.	A) Assess water quality	B)	Classify vibrio cholerae
	C) Diagnose enterococci	•	Diagnose pneumococci
35.	Which of the following is not a transport me	ediu	m ?
	A) Cary-Blair medium		V-R medium
	C) Loeffler's serum slope medium	D)	Pike's medium

A -6-

36.	All the following features are shown beA) Gram negativeC) Nitrate test positive	by enterobacteriaceae exce B) Ferment glucose D) Oxidase test pos	,
37.	The best way to collect sputum samp A) 3 samples collected by the patient B) 24 hour sample collected C) First morning sample collected in D) First morning samples of 3 days	t at 1 hour interval	re and microscopy
38.	Which is true for STS (Standard Test A) Antigen used is <i>Treponema pallid</i> B) Chance for False positive test res C) Patient remain test positive for life D) Highly specific test	dum sults	
39.	The primary diagnosis of HIV is done A) Three rapid tests B) ELISA and Western blot C) One rapid test and PCR D) One rapid test and CD4 count	e by	
40.	Which of the following is characteristic A) Non bile stained, segmented ovur B) Non bile stained, unsegmented ov C) Bile stained, mucous plugs, tadpo D) Bile stained, 3 layered coat, single	m vum ole larva	
41.	To prepare 1% hypochlorite, how much of water? A) 1 gm B) 10 gm	ch of bleaching powder is to C) 20 gm	be added to 1 litre D) 30 gm
42.	As per Biomedical waste manageme discarded in bucket with	=	g after use is to be D) Yellow
43.	Standard precautions include all excellable A) Gloves C) Hand hygiene	•	D) Tellow

A -7-

44.	Tyndallisation is a method of sterilization u A) Alcohol C) Radiation	sing B) Dry heat D) Steam
45.	Which of the following is an enriched media A) Bile broth C) Mac Conkey's broth	a for Salmonella species ? B) Glucose broth D) Selenite F broth
46.	Select the organism which is oxidase test r A) Clostridium tetani C) Neisseria meningitides	negative. B) <i>Haemophilus influenzae</i> D) <i>Vibrio cholera</i>
47.	Which of the following antibiotic disc is use A) Cefoxitin C) Penicillin	d to identify MRSA ? B) Erythromycin D) Vancomycin
48.	Pick up the lactose fermenting bacteria from A) Proteus mirabilis B) Pseudomonas aeruginosa C) Salmonella typhi D) Staphylococcus aureus	m the following.
49.	The peripheral smear of a clinically suspecte multiple ring forms and some of the rings most probable species? A) Plasmodium vivax B) Plasmodium falciparum C) Plasmodium malariae D) Plasmodium ovale	
50.	Cryptococcus neoformans is A) Parasite causing diarrhea B) Fungus causing meningitis C) Bacteria showing capsule D) None of the above	

Α

51.	Bombay blood group is seen in blood group type					
	A)	Α	В) В	C)	AB	D) O
52.	Rh	HDN occurs in				
	A)	First O negative c	hild in O positive mot	her		
	B)	Second B negativ	e child in B positive n	noth	er	
	C)	First A positive ch	ild in A negative moth	ner		
	D)	Second B positive	child in B negative n	noth	er	
53.	Dii	rect Coombs test p	ositive means Coomb	os s	erum has bound to)
	A)	Antibody in the pla	asma			
	B)	Antibody coated of	n RBC			
	C)	Antigen on RBC				
	D)	Antigen on WBC				
54.	Co	pper sulphate in b	lood bank is used to s	scre	en for	
	A)	Antibody level				
	B)	Hemoglobin level				
	C)	HIV positivity				
	D)	Malaria positivity				
55.	An	ticoagulant used ir	blood bank is			
	A)	ACD		B)	CPD	
	C)	CPDA		D)	All of the above	
56.	Fe	brile reaction occu	rs in transfusion reac	tion	due to	
	A)	RBC lysis				
	B)	Platelet aggregati	on			
	C)	Excess anticoagu	lant			
	D)	WBC antigen sen	sitization			

A -9-

57.	Inc	lications for FFP					
	A)	Coagulation factor	r deficiency				
	B)	Anaemia					
	C)	Leukemia					
	D)	Thrombocytopenia	a				
58.	Or	high speed centrit	fuging of blood we ob	tain			
	A)	PRP					
	B)	WBC cocentrate					
	C)	RBC concentrate					
	D)	Platelet concentra	te				
59.	Ро	sitive Coombs test	means we get				
	A)	Agglutination					
	B)	Rouleaux formation	on				
	C)	Cell separation					
	D)	Cell lysis					
60.	All	are transfusion tra	ınsmitted hepatitis ex	cept	t		
	A)	Α	B) B	C)	С	D)	D
61.	Fo	rmalin fixative used	d in histopathology is				
	A)	10%	B) 20%	C)	30%	D)	40%
62.	Те	chnique used in de	ecalcification are all e	xcep	ot		
	A)	Hydrochloric acid		B)	Nitric acid		
	C)	EDTA		D)	Sulphuric acid		
63.	Tis	sue section is cut i	in histopathology usir	ng			
	A)	Cryostat		B)	Microtome		
	C)	Processor		D)	Incubator		

A -10-

64.	Fo	ormalin pigment is								
	A)	Acid formaldehyde hematin								
	B)	Alkali formaldehyo	lkali formaldehyde hematin							
	C)	Albumin formaldel	nyde hematin							
	D)	Lipid formaldehyde	e hematin							
65.	Ste	eps in automated ti	ssue processor are a	ll ex	cept					
	A)	Clearing	B) Dehydration	C)	Embedding	D)	Impregnation			
66.	Fro	ozen section is don	e in tissue received ir	1						
	A)	Formalin		B)	Gluteraldehyde					
	C)	Carnoys fixative		D)	Saline					
67.	Fix	ative used in cytolo	ogy is							
	A)	10% formalin		B)	2% gluteraldehyd	le				
	C)	Osmium tetroxide		D)	95% ethyl alcoho					
68.	Со	mmonly used stain	in cytology is							
	A)	H & E	B) PAP	C)	GIEMSA	D)	Leishman			
69.	Va	n Gieson stain is u	sed to demonstrate							
	A)	Carbohydrate		B)	Connective tissue	Э				
	C)	Lipid		D)	Pigments					
70.	РА	S stain is used to d	demonstrate							
	A)	Carbohydrate		B)	Connective tissue	Э				
	C)	Lipid		D)	Pigments					
71.	Се	lls without nucleus	in blood are							
	A)	Erythrocyte		B)	Lymphocyte					
	C)	Monocyte		D)	Neutrophil					

A -11-

72.	Hemoglobin is composed of		
	A) One iron and one globin		
	B) One iron and 4 globin		
	C) 4 iron and one globin		
	D) 2 iron and 2 globin		
73.	At which stage of RBC development hemo	glok	oin first appears in the cell?
	A) Pronormoblast	B)	Early normoblast
	C) Intermediate normoblast	D)	Reticulocyte
74.	The cell in which Barr body counted is		
	A) Lymphocyte	B)	Neutrophil
	C) Erythrocyte	D)	Squamous epithelial
75.	Myeloid stem cell gives rise to all except		
	A) Erythrocyte	B)	Neutrophil
	C) Lymphocyte	D)	Platelet
76.	Cell producing platelets are		
	A) Myeloblast	B)	Lymphoblast
	C) Megakaryocyte	D)	Pronormoblast
77.	Reagent used for sickling test is		
	A) Sodium nitroprusside	B)	Sodium metabisulphite
	C) Sodium chloride	D)	Sodium nitrate
78.	Pathology of thalassemia is		
	A) RBC number is increased		
	B) Globin production decreased		
	C) Iron is deficient		
	D) Abnormal globin produced		

A -12-

79.	Pe	rnicious anaemia is a specific type of		
	A)	Dimorphic anaemia		
	B)	Microcytic anaemia		
	C)	Macrocytic anaemia		
	D)	Normocytic anaemia		
80.	Не	reditary spherocytosis is due to		
	A)	Hemoglobin structural defect		
	B)	Hemoglobin quantitative defect		
	C)	Membrane defect		
	D)	Enzyme defect		
81.	Се	Il increased in acute leukemia is		
	A)	Myeloblast	B)	Myelocyte
	C)	Metamyelocyte	D)	Neutrophil
82.	Се	Il increased in multiple myeloma is		
	A)	Myeloblast	B)	Lymphoblast
	C)	Promyelocyte	D)	Plasma cell
83.	Pro	othrombin time measures the abnormality	y in	
	A)	Extrinsic pathway	B)	Intrinsic pathway
	C)	Common pathway	D)	Vessel wall
84.	Pa	rtial thromboplastin time measures the s	tatu	is of
	A)	Extrinsic pathway	B)	Intrinsic pathway
	C)	Common pathway	D)	Vessel wall
85.	Th	e anticoagulant used for ESR estimation	is s	sodium
	A)	Fluoride	B)	Oxalate

A -13-

86.	6. The anticoagulant used for osmotic fragility is							
	A)	Heparin	B)	Oxalate	C)	EDTA	D)	Citrate
87.	He	matocrit means						
		ESR	B)	MCV	C)	MCH	וח	PCV
	, ,,		٥,	West	Ο,	WOTT	٥,	101
88.	Lei	ishman stain is use	d to	o stain				
	A)	Blood smear			B)	Cytology smear		
	C)	Sputum smear			D)	Squash imprint		
89.	We	estergrens pipette i	s u	sed to estimate				
	A)	ESR			B)	RBC count		
	C)	WBC count			D)	PCV		
90.	LE	cell preparation is	doı	ne to demonstrate				
	A)	Antinuclear antibo	dy		B)	Red cell antigen		
	C)	Barr body			D)	Sickling		
91.	Те	st for blood in urine	is					
	A)	Benedict test			B)	Benzidine test		
	C)	Rothera test			D)	Hays test		
92.	Ca	sts in urine are						
	A)	Protein coagulated	d in	tubules				
	B)	Salts crystallized i	n u	rine				
	C)	Bacteria forming c	lun	nps				
	D)	Extraneous object	S					
93.	Sp	ecific test for gluco	se	n urine is				
	A)	Urine strip test			B)	Benedict test		
	C)	Barfoed test			D)	Hays test		

Α

94.	Gl	ycosuria means uri	ne c	contains			
	A)	Glucose			B)	Acetoacetic acid	
	C)	Glycogen			D)	Beta hydroxybuty	ric acid
95. Compared to exudates the transudate would have							
	A) Lower specific gravity						
	•	More cells					
	,	More protein					
	•	D) Association with infections					
	υ)	, leading that intoduction					
96.	96. CSF fluid processing can be delayed upto						
	A)	Half hour	B)	1 hour	C)	1 and half hour	D) 2 hours
97. Methods to concentrate the fluid specimen while processing are						all except	
		Cytocentrifuge		·		Millipore filter	
	-	Sedimentation			,	Distillation	
	,				,		
98.	Qι	Quality of Sputum smear report depends on					
	A) Adequacy of sample produced by patient						
	B)	B) Area identified for pick and smear					
	C)	C) Smearing uniformity					
	D)	D) All of the above					
99.	Sto	ool occult blood test is indicated in all except					
A) Anemia							
	B) Gastrointestinal malignancy						
	C) In cases of unknown primary malignancy						
		D) Hemorrhoids					
100.		ime required for fixation of cytology smears is					
	A)	10 mins	B)	15 mins	C)	20 mins	D) 30 mins

A -15-

Space for Rough Work

A -16-