1.	Which of the following subs	stances is present in plasma but not in serum?	-
•	(A) Globulins	(B) Fibrinogen	"ill"
	(C) Erythrocytes	(D) Inorganic ions	10
2.	The destruction of all micro	o-organisms including spores is called	Q.
	(A) Sanitation	(B) Antiscpsis	*
	(C) Sterilization	(D) Disinfection	
3.		nin deficiency causes pellagra?	
	(A) Thiamine	(B) Niacin	· ·
	(C) Riboflavin	(D) Pyridoxine	
4.	The solution used to fix a pa		in a
7.	(A) Wright stain	(B) Hematoxylin	A. C. C.
	(A) Wright stam	(D) Methylene blue	2/10
5.		lled as "GOOD" cholesterol?	5
	(A) LDL-C	(B) HDL-C	
٤	(C) IDL-C	(D) VLDL-C	_3
6.		be written on a swab container	
0.	(A) To warn staff about a pos		
	(B) Only if time permits-it is		
		ar and atmospheric requirements	A. III
	(D) To determine the fee	a and atmospheric requirements	X.o.
7.		onds with the smallest needle size?	5
/·	(A) 18	(B) 20	
. 1	(C) 21	(A) 23	
8.	Blood for an RBC count mus		-
0.	(A) EDTA blood	(B) Heparinized blood	
	(C) Citrated blood	(D) Oxalated blood	
9.	The enzymes are chemically	" il	# JII .
,.	(A) Proteins	(B) Lipids	100
	(C) Carbohydrates	(D) Lipoproteins	S
10.		top, and light blue top tubes are collected, what	t is the order of draw
10.	(A) They can collected in any		
1	(B) lavender top, red top, grey	A	4
~	(C) red top, light blue top, lav		
	(D) grey top, lavender top, ligh		
11	The test procedure that uses a		ille
11.	10	(B) Reticulocyte count	10.
	(A) Hematocrit		0
	(C) Differential count	(D) ESR	
MI	Т-2022 - А]	2	Contd.
		—	■ 200 cm

12.	group	father has blood group A. The offspring have the blood			
	(A) AB	(B) O			
	(C) B, O	(D) A, B, AB, O			
13.	What is the normal pH of human blood?				
	(A) 7.0	√(B) 7.2			
1	(C) 7.35 – 7.45	(D) 7.6			
14.	An automated hematology cell count use	7* 36			
	(A) Changes in cell electrical current	(B) Colour absorption changes			
	(C) High frequency sound waves	(D) Light wave scattering			
15.	The creatinine in serum by Jaffe's reactio				
V	(A) Picric acid	(B) Citric acid			
pal pi	(C) Benzoic acid	(D) Acetic acid			
16.	Which factor would interfere with the gr				
	(A) Alkaline pH	(B) Acidic pH			
	(C) Darkness	(D) Moist environment			
17.		dded to distilled water in a container. What term would			
	(A) Solution	(B) Solvent			
	(C) Solute	(D) Reagent			
18.	Which Gram stain reagent acts as a mordant to bind the stain to the bacteria?				
	(A) Lugol's iodine	(B) Gram's iodine			
The same	(C) Crystal violet	(D) Safranin			
19.	Which statement is true regarding the us	se of reagent dipsticks?			
/					
	(B) timing of each reagent area is not necessary				
	(C) reagent sticks are held vertically when reading				
	(D) reagent strips should be tested daily v				
20.	Which of the following cells are involved				
20.	(A) Ganglion cells	(B) Mast cells			
N	(C) Plasma cells	(D) Langerhans cells			
21.	Glucose results are correctly reported in				
21.	(A) mg/L	(B) gm/L			
	(C) mg/dL	(D) gm/dL			
22	The tablet used for glucose testing in uri	ne is			
22.		(B) Ictotest			
	(A) Clinitest (C) Acetest	(D) TCA			
-1	Т-2022 - А]	3 [P.T.O.			

ptable to discard a	used needle?	
		whole needle into puncture -
scard into punctui	re proof container	100
		110.
		3
Mo.	(R) At the and of an	al market and
		ch work shift
dark vellow to an		
and to an		
	the state of the s	
a blood smoon to b	(D) Icteric	7/00
	e too thin Which factor ma	ay cause a blood smear to be
der is too high	(B) The angle of the	Prooder is to a
ler is cracked		
following narasit	(D) The smear is spre	ad too slowly
g Parasit		
test	(D) Plasmodium vivax	
test		A. III
. 0	(B) Urine osmolality u	rine osmolality
otowwa Cl. Tr	(D) The presence of ni	trates in urine
ater was made. Th	e glucose result was 4.0 mm	nol/L. What is the reported
101		
Mo		M.
called	(D) 32.0 mmol/L	
	(D) I E . 11	
		110
		21.
ted correctly the	final result is?	101
Chris	(B) No growth pathoger	IS .
rs the plate	(D) a pure culture	
Var	- Way	- Nº
nnel	(B) More safety for pat	ients
test (s) will be in	ncreased	tor patients and staff
(-) 20 1.	* N	A. H.
. 0	10.	· of o
	(D) A, B & C	-W
- 10		2
4	N. O. I.	[Contd.
	edle into puncture scard into puncture scard into puncture scard bag r garbage minated a blood smear to be ader is too high der is cracked e following parasit test ater was made. The called ked correctly the scart company to the plate minel	(B) At the end of each (D) A, B & C dark yellow to amber in color is termed (B) Hemolysed (D) Icteric a blood smear to be too thin Which factor makes and the is cracked (D) The angle of the set (D) The smear is spread (D) Plasmodium vivax (D) Plasmodium vivax (D) The presence of ni ater was made. The glucose result was 4.0 mm (B) 16.0 mmol/L (D) 32.0 mmol/L (D) Band cell (B) LE cell (D) Band cell (B) No growth pathogen (D) a pure culture

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	(C) 1% Hypochlorite	(D) Spirit
	(A) Dettol	(B) Lysol
46.	What solution is used to clean up biohaza	
Server	(C) ALT	(D) CK-Total
	(A) Albumin	(B) AST
45.	Which is not a liver function test?	an tom
67	(C) Safranin	(D) Iodine
8	(A) Fast green	(B) Janus green
44.	The stain used to visualize mitochondria is	
	(C) Romanowsky stain	New Methylene blue stain
	(A) Ziehl-Neelson stain	(B) Wright's stain
43.	Which is super vital stain?	at.ii
	(C) Embed tissue in paraffin wax	(D) Attach cover slips to slides
	(A) Fix autopsy specimen	(B) Clear tissue in paraffin wax
42.	Xylene is used to	Booksage of the Company of the Company
2	(C) Hb Electrophoresis	(D) BUN
	(A) Iron	(B) Electrolytes
41.	Which test would not be performed on pl	asma or serum?
	(C) Phase contrast	(D) Florescent
,	(A) Electron	(B) Light
40.	The most commonly used microscope in t	he clinical laboratory is the
	(C) Sheath	(D) Scab
	(A) Spore	(B) Cyst
39.		t is resistant to heat and drying. This is called a
1	(C) to regulate heartbeat	(D) A & B
	(A) to supply oxygen to tissue	(B) to remove carbon dioxide from tissue
38.	The functions of the respiratory system is	10
-0	(C) NAAC	(D) NATC
4	(A) NABL	(B) NHAI
37.	Which of the following is a standard crite	
	(C) Renal pelvis	(D) Nephron
	(A) Renal cell	(B) Renal cortex
36.	The functional unit of the kidney is the	Mo
0	(C) ACTH	(D) FDP
W	(A) PT	(B) APTT
35.	Which test does not monitor a patient's o	
	(C) 10% Formalin	(D) Ether
	(A) Zinc Sulfate	(B) Crystal Violet
34.	Which reagent is not used to concentrate	e and stain ava and parasite specimen?

4	7. The largest vein in the body is the	2	
	(A) Vena cava	(B) Aorta	
	(C) Pulmonary vein	(D) Iliac vein	
48	200	**************************************	
	(A) Rh factor	(B) CRP	
S	(C) VDRL	(D) ESR	-
49	. The "universal solvent" is	Me	171
	(A) Absolute Alcohol	(B) 10% Ethanol	
	√ (€) Water	(D) 0.85% NaCl	
50	Insulin is	il il	
	(A) A hormone	(B) Produced by the pancreas	
	(C) Has the opposite effect to glucagon		
51.	Blood films are not fixed before staining		
as)	(A) Wright's stain contains methanol, v	which does the fixing	~ (
110	(B) They are fixed with heat after stain		4
	(C) They are fixed with phosphate buff	fer during staining	
	(D) the anti-coagulant EDTA acts as a f	fixing agent	
52.	Which is not part of the large intestine	.??	
	(A) Cecum	(B) Rectum	
	(C) Duodenum	(D) Sigmoid colon	
53.	Which test will not be performed on a		
d	(A) LDH	(B) CK	7
No	(C) K	(D) A, B & C	e Pi
54.	Which of the following is not an examp	le of autosomal dominant trait?	104
	(A) Cystic fibrosis	(B) Brachydactyly	
4	(C) Huntington's disease	(D) Marfan syndrome	
55.	In Anemia	All I	
\	(A) Decreased hemoglobin or red blood	cell production	
	(B) Increased hemoglobin or red blood c		
1	(C) Morphological changes in red blood		
No.	(D) A & C	Mo	1
56.	Round bacteria which grow in clusters of	called	**
	(A) Streptococci	(B) Staphylococci	
	(C) Diplococci	(D) Pagilagaggi	
57.	Which reagent is stored under water?	(D) Bashococci	
	(A) Pierie acid	✓(B) NaOH	
	(C) Ether	(D) CuSO ₄	
-	1	(D) 5	[Contd.
ML	Г-2022 - А]	6	Contai

58.	Which of the following associated with alle	ergic and hypersensitivity reactions?
	(A) Ig A	(B) Ig D
8	(C) Ig G	(D) Ig E
59.	. Which of the following statements is true re	garding personal information about patients?
	(A) Patients personal information may be di	Scussed during coffee break
	(B) Must never be discussed outside the hos	
	(C) May be discussed with other patients	and the second second second
	(D) May be used for your personal advantag	e i a de di i pan ad a . i g
60.		
		apsule a spore consists of a hard, thick walled capsule
	(B) Spores represent a resting and protective	
	(C) All bacteria forms spores	The state of the s
	(D) A & B	State of the control of the property of the party of the
61.	. The destruction of erythrocytes to release he	emoglobin is called
	(A) Hemorrhage	(B) Hemolysis
	(C) Hemostasis	(D) Hypoxia
62	. Which is true regarding Zeil-Neelson staining	g EXCEPT?
	(A) It is also called acid-fast staining	
	(B) Carbolfusion, acid-alcohol and methylen	e blue are used
	(C) It is done to detect tuberculosis	and the spin of th
9	(D) The mycobacteria stain blue	The surprise of the 10th of
63.	What type of water should be used in an aut	oclave?
	(A) Distilled water	(B) Tap water
	(C) Salt water	(D) Mineral water
64.	The common antiseptic that destroys HIV at	nd HBV is
	(A) Lysol	(B) 1% Hypochlorite
	(C) Iodine/ Chlorohexidine	(D) B & C
65.	The first line of defense of our body is	a to the state of
	(A) T lymphocyte and B lymphocyte	(B) Neutrophils and Eosinophils
	(C) Antibody	(D) Interferon
66.	MSDS stands for	The state of the same
	(A) Material Safety Data System	(B) Material Safety Data Sheet
	(C) Managing Safe Detail Sheet	(D) Maintaining Safe Delivery Standards
		7 [P.T.O.
ML	Л-2022 - А]	7 [P.T.O.

(A) Amyle (C) LDH 8. Leukopo (A) The s (B) An in (C) The d (D) The s 9. TSH is a (A) Prod (C) Also (D) Whice (C) Also (D) Whice (C) Ante (C) Ante (C) Auto (A) Stear (C) Auto (A) Stron	Mat.	(B) G6-PD (D) CK-MB	
(A) The sign (B) An in (C) The display (C) Also (D) Whice (C) Also (D) Whice (C) Anterior (A) Steam (C) Auto (A) Steam (A) Strong (A) Strong (A) Strong (A) The sign (A) Strong (A) The sign (A) Strong (A) The sign (B) Auto (C) Auto (A) Strong (A) Strong (A) Strong (A) The sign (B) Auto (A) Strong (A) Strong (A) Strong (A) Strong (A) Strong (A) Strong (A) The sign (B) Auto (A) Strong (A) Strong (A) Strong (B) Auto (A) Strong (A) Strong (B) Auto (A) Strong (B) Auto (A) Strong (A) Strong (B) Auto (A) Strong (B) Auto (A) Strong (B) Auto (A) Strong (B) Auto (B)	4.93	.03	
(A) The s (B) An in (C) The d (D) The s 9. TSH is a (A) Production (B) Whic (C) Also (D) Whic (C) Ante (C) Ante (C) Ante (C) Auto (A) Steam (C) Auto (A) Stron (A) Stron	olesis is	WICK-WIK	
(B) An in (C) The d (D) The s 9. TSH is a (A) Product (B) Whice (C) Also (D) Whice (C) Anter (C) Anter (A) Steam (C) Auto (A) Steam (A) Strom		(=) CALIND	
(C) The d (D) The s 9. TSH is a (A) Prod (B) Whic (C) Also (D) Whic 0. Identify (A) Adre (C) Ante (I) Which of (A) Stear (C) Auto (A) Stear (A) Stron	ynthesis of white blood cells	A STATE OF THE STATE OF	
(C) The d (D) The s 9. TSH is a (A) Prod (B) Whic (C) Also (D) Whic 0. Identify (A) Adre (C) Ante (I) Which of (A) Stear (C) Auto (A) Stear (A) Stron	crease in the production of white blo	out calls	
(D) The s 9. TSH is a (A) Prode (B) Whice (C) Also (D) Whice 0. Identify (A) Adre (C) Anter 1. Which of (A) Steam (C) Auto (A) Strong	lestruction of white blood cells	ou cens	L
9. TSH is a (A) Prode (B) Whice (C) Also (D) Whice 0. Identify (A) Adre (C) Ante 1. Which of (A) Steam (C) Auto (A) Strong	synthesis of red blood cells		
(C) Also (D) Whice (D) Whice (C) Adre (C) Anter (C) Anter (A) Steam (C) Auto (A) Strom (A) Strom	hormone	On any wanted species in the	
(C) Also (D) Whice (D) Whice (C) Adre (C) Anter (C) Anter (A) Steam (C) Auto (A) Strom (A) Strom	uced by the thyroid gland	The first of the same of the same	
(C) Also (D) Whice (D) Whice (A) Adre (C) Anter (A) Steam (C) Auto (A) Strom (A) Strom (A) Strom	th stimulates T3 and T4 to be secreted	and the same of th	
(D) Whice (D) Whice (E) Adre (C) Ante (A) Steam (C) Auto (A) Steam (C) Auto (A) Strong	produced by the parathroid glands	The same of the sa	
(A) Adre (C) Ante (I) Which of (A) Stear (C) Auto (A) Stron (A) Stron	ch stimulates testosterones to be secre	ted.	0
(A) Adre (C) Ante (I) Which of (A) Stear (C) Auto (I) A buffer (I)	the gland that releasing melatonin he		1 1/10
(C) Anter (A) Steam (C) Auto (A) Strom	nal Medulla	(B) Pineal	
(A) Stear (C) Auto (2. A buffer (A) Stron	rior pituitary	(D) Thymus	
(A) Stear (C) Auto (2. A buffer (A) Stron		ermining the effectiveness of the sterilization	on process?
(C) Auto 2. A buffer (A) Stron	m clox indicators	(B) Culture tests	on process:
2. A buffer (A) Stron	clave tape	(D) Sterilometers-thermolabile strips	
(A) Stroi	r is made from mixing a	President and a second strips	
	ng acid and strong base	(B) Weak acid or base with salt	100
(C) Sait	with organic acid	(D) Weak acid with a weak base	
	son having fasting condition, then its		
(A) Amir		(B) Glucose	_
(C) Keto	ones (10%) wearts (10%)	(D) Fats	
74. Which o	f the following an example of aggluti		
(A) SGP	T	(B) Glucose	
(C) ESR		(D) Blood group	.0
75. Which o	of the following is correct method to d		140
	id test	(B) Western blot	
(C) CBC		(D) Westergren	
	of the following ship was involved	110	
3.0	S Vikramaditya	(B) INS Airavat	
	Kesari	(D) INS Shakti	
(C) III	ACOUST NO HOUSE TO SEE	(D) ING SHAKII	

77.	Atal Innovation Mission is set up und	er the
1	(A) Niti Aayog	e in
4	(B) Department of Science and Techn	ology
	(C) Ministry of Labour and Employn	ient
	(D) Ministry of Skill Development an	d Entrepreneurship
78.	RNA interference (RNAi) technology	has gained popularity in the last few years, Why?
9/	1. It is used in developing gene silenci	
,	2. It can be used in developing therap	ies for the treatment of cancer
	3. It can be used to develop hormone	
		its that are resistant to viral pathogens.
	Select the correct answers using the c	
	(A) 1, 2 & 4	(B) 2 & 3
	(C) 1 & 3	(D) 1 & 4
79.	Which one of the following is used in	preparing a natural mosquito repellent?
1/6	(A) Nut Grass	(B) Elephant Grass
	(E) Congress Grass	(D) Lemon Grass
80.	and management by building a series	vns is well-known for its elaborate system of water harvesting of dams and channelizing water into connected reservoirs?
٩	(A) Kalibangan	(B) Rakhigarhi
	(C) Dholavira	(D) Ropar
81.	the following games	redalist, who died in 2021, was associated with which one of
4	(A) Gymnastics	(B) Archery
21.0	(C) Boxing	(D) Swimming
82.	Avani Lekhara became the first Inc Paralympics 2020. Which one of the	lian women to win two Paralympics medals at the Tokyo following was her discipline?
8	(A) Badminton	(B) Shooting
	(C) Table Tennis	(D) Archery
83.	Which one of the following are the p	rimary colors of light?
	(A) Yellow, Red & Green	(B) Violet, Red & Yellow
× .	(C) Blue, Red & Green	(D) Indigo, Violet & Green
84.	Point of Origin of Earthquake Wave	
14.	(A) Focus	(B) Seismic Zone
	(C) Photosphere	(D) Epicenter
85.		NIC), under the Ministry of Electronics and Information
	(A) Samachar	(B) Telegraph
	(C) Chat	(D) Sandes
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86. Which of th	e following statements are	correct reg	arding National Payr	nents Corporation of Indi
3	nitiative of RBI and Indian	11.0		110
O	corporated as a 'Not for Pi			2
2.50	***		250	
3. UPI, Rup	ay and BHIM app are the	major pro	tail Daymants and and	(1)
4. This is an	umbrella organization to	operate Re	B) 1, 2, 3	ttements systems in India.
(A) 1, 2, 3, 4	VO)	,	D) 2, 3, 4	VO.
(C) 1, 3, 4	B.	,	D) 2, 3, 4	Li.
87. RT-PCR is a		hain raacti	on	
	ranscriptase polymerase c			NI .
	PCR is to produce a large			NA.
	duce millions of copies of			9
	or the diagnosis of Covid			
(A) 1, 2, 3, 4	CON	T.	B) 1	
(C) 1, 2, 3		(J	D) 2, 3, 4	2
88. 'Hanging Min	narets' is located in -	_	VO.	VO.
(A) Lucknow	la.		3) Ahmedabad	B.
(C) New Delh		5	O) Agra	
89. 'Heritage Wa	lk' in the city of Ahmedah	ad, initiate	es/starts from one of t	he following?
(A) Jama Mas	sjid		3) Calico Dome	10
(C) Lambeshy	vari ni pol 💮 🧖)) Swaminarayan Ma	ndir, Kaiupur
90. The present M	Iayor of Ahmedabad Mur	icipal Cor	poration is	
(A) Shri Bijal			3) Shri Gautam Shah	7
(C) Shri Amit		(D) Shri Kiritkumar Pa	rmar 🗼
91. 'Right to priva	acy' is protected under wh	nich Article	of the Constitution o	f India?
(A) Article 15) Article 19	la.
(C) Article 21		(D) Article 29	
(C) Article 21	ght of information under	15.	**	05?
92. Who has the ri	ual in India including the	foreigners	residing in India	-10
(A) All individu	ual in India including the ual in India,agencies of th	o state and	the foreigners residin	g in India
		e state and	the foreigners	
(C) All citizens			Char	
(D) All agencies	s of the State	2.4	Constitution of	India from the British
93. Which of the fe	s of the State following features were b	orrowed b	y the Constitution of	10
Constitution?	100		Law-making Proced	
し (A) Rule of Law	V	(B)	Parliamentary Syste	ms
(C) Independen	ce of Judiciary	(D)	Parnamentary of	ies with
94. The power to leg	ce of Judiciary gislate on all matters rela	ting to ele	ctions to Panchayats	ision of India
(A) The Parliam	ent of India	√ (B)	The Election Commi	ommission
(C) The State Le		(D)	The State Election C	Ullimiosio
(C) The blate be	Ch.		-Ch,	[Contd.
MIT 2022 A 1	all be	10	10	į o
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13.	what is the objective of the mission	'Indradhanush' started by the Government of India?		
	(A) Strengthen the immune system	for all children		
	(B) Assurance of affordable and qu			
		the poor and support services to all patients		
,	(B) Assurance of affordable and qu	ality health care for all		
96.		nology', consider the following statements:		
- 4		e can inspect but which no single user controls.		
Q'		kchain is such that all the data in it are about cryptocurrency		
V	3. Applications that depend on bas permission.	c features of blockchain can be developed without anybody's		
	Which of the statements given about	ve is/are correct?		
	(A) 1 only	(B) 1 & 2 only		
	(C) 2 only	(D) 1 & 3 only		
97.	The Operating System manages w	nich of the following?		
4	(A) Memory	✓(B) Processor		
	(C) Disk and I/o Device	(D) All of the above		
98.	Which of the following programming languages are classified as low level languages?			
	(A) C, C++	(B) Java, Python		
	(C) BASIQCOBOL	(D) Assembly Languages		
99.	A VGA cable is used for computer	video output, what does VGA stand for?		
	(A) Visual Graphics Arrangement	(B) Video Graphic Array		
	(C) Volatile Graphics Array	(D) Visual Graph Adaptor		
100.	In MS-Word, Home key is used for	which of the following?		
1	(A) To move the cursor to the begin	nning of the document		
	(B) To move the cursor to the begin	nning of the line		
	(C) To move the cursor to the begin	nning of the paragraph		
	(D) To move the cursor to the begin	nning of the screen		