Test Booklet Series

Α

Written Test Paper, 2021

Paper No.

29

LAB TECHNICIAN (MLT)

Test	Booklet	No.

Name of Applicant	Answer Sheet No.
Application No.: SVSU/2020/Estt/NT/	Signature of Applicant:
Date of Examination: 25 / 12 / 2021	Signature of the Invigilator(s) 1
Time of Examination:	2

Duration: 2 Hours [Maximum Marks: 100

IMPORTANT INSTRUCTIONS

- (i) The question paper is in the form of Test-Booklet containing **100** (**Hundred**) questions. All questions are compulsory. Each question carries four answers marked (A), (B), (C) and (D), out of which only one is correct.
- (ii) On receipt of the Test-Booklet (Question Paper), the candidate should immediately check it and ensure that it contains all the pages, i.e., **100** questions (70 in Part-A + 30 in Part-B). Discrepancy, if any, should be reported by the candidate to the invigilator immediately after receiving the Test-Booklet.
- (iii) A separate Answer-Sheet is provided with the Test-Booklet/Question Paper. On this sheet there are **100** rows (70 in Part-A + 30 in Part-B) containing four circles each. One row pertains to one question.
- (iv) The candidate should write his/her Application number at the places provided on the cover page of the Test-Booklet/Question Paper and on the Answer-Sheet and NOWHERE ELSE.
- (v) No second Test-Booklet/Question Paper and Answer-Sheet will be given to a candidate. The candidates are advised to be careful in handling it and writing the answer on the Answer-Sheet.
- (vi) For every correct answer of the question **One** (1) mark will be awarded. For every unattempted question, Zero (0) mark shall be awarded. There is no Negative Marking.
- (vii) Marking shall be done only on the basis of answers responded on the Answer-Sheet.
- (viii) To mark the answer on the Answer-Sheet, candidate should **darken** the appropriate circle in the row of each question with Blue or Black pen.
- (ix) For each question only **one** circle should be **darkened** as a mark of the answer adopted by the candidate. If more than one circle for the question are found darkened or with one black circle any other circle carries any mark, the question will be treated as cancelled.
- (x) The candidates should not remove any paper from the Test-Booklet/Question Paper. Attempting to remove any paper shall be liable to be punished for use of unfair means.
- (xi) Rough work may be done on the blank space provided in the Test-Booklet/Question Paper only.
- (xii) Mobile phones (even in Switch-off mode) and such other communication/programmable devices are not allowed inside the examination hall.
- (xiii) No candidate shall be permitted to leave the examination hall before the expiry of the time.

DO NOT OPEN THIS QUESTION BOOKLET UNTIL ASKED TO DO SO.

PART-A

1.	What is the life span of RBC?	5.	Blood cells are produced in
	(A) 120		(A) kidney
	(B) 100		(B) lungs
	(C) 200		(C) bone marrow
	(D) 80		(D) glands
2.	What is the recommended cleaner for removing all oil from objective lens?	6.	By volume, the red blood cells constitute about% of whole blood.
	(A) 70% alcohol or lens cleaner		(A) 15
	(B) xylene		(B) 25
	(C) water		(C) 35
	(D) benzene		(D) 45
3.	Serum differs from blood as it lacks	7.	Which constituent of blood fight against infections?
3.	Serum differs from blood as it lacks (A) antibodies	7.	
3.		7.	infections?
3.	(A) antibodies	7.	infections? (A) red blood cells
3.	(A) antibodies(B) clotting factors	7.	infections? (A) red blood cells (B) white blood cells
3.	(A) antibodies(B) clotting factors(C) albumins	 7. 8. 	infections? (A) red blood cells (B) white blood cells (C) plasma
	 (A) antibodies (B) clotting factors (C) albumins (D) globulins Oxygen is supplied from lungs to tissues		 infections? (A) red blood cells (B) white blood cells (C) plasma (D) platelets The pH value of blood is normally between
	 (A) antibodies (B) clotting factors (C) albumins (D) globulins Oxygen is supplied from lungs to tissues and organs by		infections? (A) red blood cells (B) white blood cells (C) plasma (D) platelets The pH value of blood is normally between and
	 (A) antibodies (B) clotting factors (C) albumins (D) globulins Oxygen is supplied from lungs to tissues and organs by (A) red blood cells 		infections? (A) red blood cells (B) white blood cells (C) plasma (D) platelets The pH value of blood is normally between and (A) 6.0, 6.5

9.	An average adult person has about liters of blood by volume.	13.	
	(A) 5		(A) serum
	(B) 5.5		(B) plasma
			(C) EDTA blood
	(C) 6		(D) citrate blood
	(D) 6.5		
10.	What mordant is used in Gram staining?	14.	Rh typing is based on the D-antigen present in:
	(A) crystal violet		(A) platelet
	(B) safranin		(B) rbc
	(C) acid-alcohol		(C) lymphocyte
	(D) iodine		(D) eosinphils
11.	RFT Includes:	15.	ESR equipment is known as
	(A) electrolytes		(A) sahli's tube
	(B) total protein		(B) centrifuge
	(C) ast		(C) vacutainer
	(D) alt		(D) westegren's tube
12.	Microscopic examnation of urine is done to find out:	16.	The reagent used in estimation of Glucose is:
	(A) rbc		(A) urease
	(B) pus cells		(B) hexokinase
	(C) cast		(C) jaffe
	(D) All the above		(D) None of the above

17.	The commonly used fixative for slide preparation is:	21.	Confirmatory test for AID's is:
	(A) benedict reagent		(A) elisa
	(B) distilled water		(B) clia
	(C) formalin		(C) western blot
			(D) chromatography
	(D) None of the above		
		22.	The basic component of Leishman stain is:
18.	Which one of the following does not include routine liver function test?		(A) eosin
	(A) bilirubin		(B) methylene blue
	(B) bile acid		(C) malachite green
	(C) sgot		(D) safrenin
	(D) alkaline phosphatase		
		23.	Which of the following is Romanowsky
19.	CSF samples are collected by:	23.	stain?
19.	CSF samples are collected by: (A) lab tech	23.	· ·
19.	•	23.	stain?
19.	(A) lab tech	23.	stain? (A) Leishman
19.	(A) lab tech(B) staff nurse	23.	stain? (A) Leishman (B) giemsa
19.	(A) lab tech(B) staff nurse(C) physician	23.	stain? (A) Leishman (B) giemsa (C) jenners
19. 20.	(A) lab tech(B) staff nurse(C) physician	23.24.	stain? (A) Leishman (B) giemsa (C) jenners
	(A) lab tech(B) staff nurse(C) physician(D) ward boy		stain? (A) Leishman (B) giemsa (C) jenners (D) All the above
	 (A) lab tech (B) staff nurse (C) physician (D) ward boy All the following are motile bacteria except:		stain? (A) Leishman (B) giemsa (C) jenners (D) All the above Which of these is not a lipid?
	 (A) lab tech (B) staff nurse (C) physician (D) ward boy All the following are motile bacteria except: (A) e.coli 		stain? (A) Leishman (B) giemsa (C) jenners (D) All the above Which of these is not a lipid? (A) Fats
	 (A) lab tech (B) staff nurse (C) physician (D) ward boy All the following are motile bacteria except: (A) e.coli (B) klebsiella 		stain? (A) Leishman (B) giemsa (C) jenners (D) All the above Which of these is not a lipid? (A) Fats (B) Oils

25.	Which of the following is usually not found in the urine?	1 29.	The most significant reagent strip test that is associated with a positive ketone result is:			
	(A) Magnesium		(A)	Glucose		
	(B) Urea		(B)	Protein		
	(C) Uric acid		(C)	pH		
	(D) Glucose		(D)	Specific gravity		
26.	Testing a refrigerated specimen that has not warmed to room temperature will adversely affect:		the r	pecific gravity of 1.005 would produce eagent strip color:		
	(A) Enzymatic reactions		(A)	Blue		
	(B) Dye-binding reactions		(B)	Green		
	(C) The sodium nitroprusside reaction		(C)	Yellow		
	(D) Diazo reactions		(D)	Red		
	(b) Diazo reactions	31.	The	coagulase is done to differentiate:		
27.	All of the following are important to protect the integrity of reagent strips except:	t	(A)	Staphylococcus aureus from Staphylococcus epidermidis		
	(A) Removing the desiccant from the bottle		(B)	Staphylococcus epidermidis from Neisseria meningitidis		
	(B) Storing in an opaque bottle		(C)	Streptococcus pyogenes from		
	(C) Storing at room temperature			Enterococcus faecalis		
	(D) Resealing the bottle after removing a strip	ı	(D)	Streptococcus pyogenes from Staphylococcus aureus		
28.	A urine specimen with a pH of 9.0:	32.	Card	liac markers are:		
	(A) Indicates metabolic acidosis		(A)	ck, ckmb, tropi		
	(B) Should be recollected		(B)	ast, alt, protein		
	(C) May contain calcium oxalate crystals		(C)	carbohydrate		
	(D) Is seen after drinking cranberry juice	:	(D)	glucose		

33.	To which of the following would the term "white cell" NOT be applied?	37.	What is PPE in laboratory?
	(A) erythrocyte		(A) personnel protective equipment
			(B) pipette per equipment
	(B) leucocyte		(C) professional pipetter
	(C) lymphocyte		(D) None of them
	(D) monocyte		
34.	Which individuals can receive any type of blood and are considered universal	38.	The liquid portion of blood remaining after a clot has formed is called:
	recipients?		(A) plasma
	(A) A+		(B) serum
	(B) O-		(C) tissue
	(C) AB+		(D) lymph
	(D) B-		
35	What is found in blood serum that is also in	39.	Which test cannot be performed on a serum sample?
35.	What is found in blood serum that is also in blood plasma?	39.	-
35.		39.	sample?
35.	blood plasma?	39.	sample? (A) Iron
35.	blood plasma? (A) blood cells	39.	sample? (A) Iron (B) Vitamin B ₁₂
35.	blood plasma? (A) blood cells (B) platelets	39.	sample? (A) Iron (B) Vitamin B ₁₂ (C) Total lipids
35.	blood plasma? (A) blood cells (B) platelets (C) plasma proteins	39.40.	sample? (A) Iron (B) Vitamin B ₁₂ (C) Total lipids
35. 36.	blood plasma? (A) blood cells (B) platelets (C) plasma proteins		sample? (A) Iron (B) Vitamin B ₁₂ (C) Total lipids (D) Clotting factors
	blood plasma? (A) blood cells (B) platelets (C) plasma proteins (D) clotting factors		sample? (A) Iron (B) Vitamin B ₁₂ (C) Total lipids (D) Clotting factors A suction device used to draw up liquids
	blood plasma? (A) blood cells (B) platelets (C) plasma proteins (D) clotting factors Tumor markers:		sample? (A) Iron (B) Vitamin B ₁₂ (C) Total lipids (D) Clotting factors A suction device used to draw up liquids is a:
	blood plasma? (A) blood cells (B) platelets (C) plasma proteins (D) clotting factors Tumor markers: (A) CA125		sample? (A) Iron (B) Vitamin B ₁₂ (C) Total lipids (D) Clotting factors A suction device used to draw up liquids is a: (A) flask
	blood plasma? (A) blood cells (B) platelets (C) plasma proteins (D) clotting factors Tumor markers: (A) CA125 (B) CA19.9		sample? (A) Iron (B) Vitamin B ₁₂ (C) Total lipids (D) Clotting factors A suction device used to draw up liquids is a: (A) flask (B) cylinder

41.	Which one of the following is NOT a blood component?	45.	Hay's test detects in urine.
	(A) Fresh frozen plasma(B) Hemolysate		(A) bile salts(B) blood
	(C) Platelet concentrate(D) Plasma		(C) ketone bodies(D) bile pigment
42.	What is the normal hemoglobin concentration in adult male?	46.	What is the gauge of the needle commonly used for venipuncture?
	(A) 13-20 g/dl		(A) 26
	(B) 13 - 17 g/dl (C) 13- 15 g/dl		(B) 20
			(C) 21
	(D) 11- 15 g/dl		(D) 18
43.	Which one of the following is NOT the site	47.	Which of the following parasite is found in
	selected for collection of the blood?		urine specimen?
	_		(A) Taenia sps
	selected for collection of the blood?		-
	selected for collection of the blood? (A) Spleen		(A) Taenia sps
	selected for collection of the blood? (A) Spleen (B) Arteries		(A) Taenia sps(B) Trichomonas vaginalis
44.	selected for collection of the blood? (A) Spleen (B) Arteries (C) Capillaries	48.	(A) Taenia sps(B) Trichomonas vaginalis(C) Trichuris trichiura
44.	selected for collection of the blood? (A) Spleen (B) Arteries (C) Capillaries (D) Veins Which one of the following tests is NOT	48.	 (A) Taenia sps (B) Trichomonas vaginalis (C) Trichuris trichiura (D) Round worm What is the eosinophil count present in a
44.	selected for collection of the blood? (A) Spleen (B) Arteries (C) Capillaries (D) Veins Which one of the following tests is NOT used to detect renal function?	48.	 (A) Taenia sps (B) Trichomonas vaginalis (C) Trichuris trichiura (D) Round worm What is the eosinophil count present in a normal DLC smear?
44.	selected for collection of the blood? (A) Spleen (B) Arteries (C) Capillaries (D) Veins Which one of the following tests is NOT used to detect renal function? (A) Blood sugar	48.	 (A) Taenia sps (B) Trichomonas vaginalis (C) Trichuris trichiura (D) Round worm What is the eosinophil count present in a normal DLC smear? (A) 1-10%

49.	Which of the following type of cholesterol is called as good cholesterol?	53.	Cholesterol estimation is done by the following method:
	(A) HDL		(A) Molisch method
	(B) Chylomicrons		(B) Benedict's method
	(C) VLDL		(C) Zak's ferric chloride method
	(D) LDL		(D) Jaffes method
50.	Which of the following is a gram negative bacilli?	54.	Coma shaped bacteria are known as
	(A) Staphylococcus aureus		(A) Staphylococci
	(B) Staphylococcus citreus		(B) Streptococci
	(C) Streptococcus pneumoniae		(C) Vibrio
	(D) Pseudomonas aeruginosa		(D) Bacillus
51.	What is the colour of normal CSF? (A) Colourless (B) Yellow (C) Light green	55.	A positive tuberculin test is indicated by and area of induration of: (A) < 5 mm in diameter (B) 6-9 mm in diameter
	(D) Brown		(C) 10 mm in diameter
			(D) No induration
52.	Normal reticulocyte count in adults is (A) 3-6% (B) 0.5-2.5% (C) 1-5% (D) 2-10%	56.	Diagnostic test used for TB is (A) Mantoux test (B) Dick Test (C) Shick test (D) Widal test

9

57.	Acid	Acid fast staining is used to detect		Name the anticoagulant present in purple coloured vacutainer tube				
	(A)	Mycobacterium TB						
	(B)	Ctetani		(A)	Heparin			
	(C)	HIV/AIDS		(B)	EDTA			
	(D)	Meningococci		(C)	Sodium citrate			
				(D)	None of these			
58.		hod of sterilization used for culture ia is	62.	Keto	one bodies in urine are:			
	(A)	Autoclave		(A)	Acetone			
	(B)	Hot air oven		(B)	Beta hydroxy butyric acid			
	(C)	Pasteurization		(C)	Both (A) and (B)			
	(D)	None of the above		(D)	None of these			
59.	Shap	pe of cocci	63.	Seru	m electrolytes are analysed using			
	(A)	Rod		(A)	Calorimeter			
	(B)	Spherical		(B)	Flamephotometer			
	(C)	Comma		(C)	Spectrophotometer			
	(D)	Spiral		(D)	None of these			
60.	VDF	RL is used in the diagnosis of	64.	Tem	perature range used for autoclaving is			
	(A)	Syphilis		(A)	100°C for 10 min			
	(B)	HIV		(B)	100°C for 30 min			
	(C)	Typhoid		(C)	121°C for 15 min			
	(D)	Tuberculosis		(D)	121°C for 30 min			

65.	The only cell in normal CSF is	68.	Specific gravity of urine normally varies between
	(A) Neutrophil(B) Lymphocyte(C) Manocyte(D) None of these		(A) 1.010–1.040 (B) 1.010–1.015 (C) 1.010–1.030 (D) 1.030–1.040
66.	The solution used to fix a pap smear is: (A) wright stain (B) hematoxylin (C) physiological saline (D) cytospray	69.	Name the test used to detect the presence of glucose in urine: (A) Fouchet's test (B) Benedict's test (C) Hay's test (D) Rothera's test
67.	Presence of red blood cells in the urine is referred to as: (A) Hematuria (B) Hemoglobinuria (C) Anuria (D) Chyluria	70.	A compound microscope has how many lenses (A) 1 (B) 2 (C) 3 (D) 4

PART-B

71	25	27			10	0
ΙΙ.		 .) /	-	-	49	- 1

- (A) 41
- (B) 65
- (C) 56
- (D) 60
- 72. Find the missing character?

4C	2B	3A
28A	?	45B
7C	5A	15B

- (A) 10C
- (B) 12C
- (C) 13C
- (D) 7C
- 73. Pointing at a photo, Dinesh said, "His father is only son of my mother." The photo belongs to:
 - (A) Dinesh
 - (B) Dinesh's brother
 - (C) Dinesh's father
 - (D) Dinesh's son

74.	Rakesh ranks 13th in the class of 33
	students. There are 5 students below Mahesh
	rankwise. How many students are there
	between Rakesh and Mahesh?

- (A) 12
- (B) 14
- (C) 15
- (D) 16

	~ . ~		~		
75.	QAR,	RAS.	SAT	TAU.	
, .	V,	11110,	\sim 111	,	

- (A) UAV
- (B) UAT
- (C) TAS
- (D) TAT

76.	Choose	the	word	which	is	different	from
	the rest.						

- (A) Pear
- (B) Apple
- (C) Litchi
- (D) Orange

77.	Before you	gave	answers,	sir	
	them to us.				

- (A) sent
- (B) will send
- (C) had sent
- (D) was sending

78.	Lool	x, a new missile	82.	He re	minds us Paul Walker.
	(A)	is launched		(A)	about
	(B)	is launch		` /	of
	(C)	is being launch		` '	for
	(D)	is being launched		(D)	with
	` /		83.	Find t	he minimum number of straight lines
79.	The grav	paths of glory lead to the			ed to make the given figure.
	(A)	straight			
	(B)	but			
	(C)	in		(A)	13
	(D)	directly		` ´	15
				` '	17
80.	You you?	haven't had your lunch yet,		(D)	19
	(A)	are	84.	Select	the figure that does NOT belong in
	(B)	aren't		the fo	llowing group.
	(C)	have		6	
	(D)	haven't			
81.	Whi	ch sequence makes a correct sentence?		r	а в с в
01.	1.	-		` ′	B
		tea		` '	A D
	2.	have		` /	C
	3.	that		(D)	
	4.	some	85.	P, Q,	R and S are four friends. P is shorter
	5.	before			Q but taller than R who is shorter
	(A)	43251			S. Who is the shortest among all?
	(B)	24315		(A)]	
	(C)	24153			Q R
	(D)	52431		` '	S

13

86. Select the Answer figure that fits in the blank space in the given problem figure.

Problem Figure

$\overline{\diamond}$	ム	-
4	, -	ф
Ø	ϕ	?

Answer Figure

Ą	·	o	¤
A	В	C	D

- (A) D
- (B) C
- (C) B
- (D) A
- 87. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Demonstration

- (A) Moon
- (B) Most
- (C) Train
- (D) Damage
- 88. If white is called black, black is called red, red is called yellow, yellow is called green, green is called blue, blue is called violet and violet is called orange, what would be the colour of human blood?
 - (A) green
 - (B) black
 - (C) red
 - (D) yellow

- 89. A train running at 90 km/hr crosses a pole in 10 seconds. What is the length of train?
 - (A) 250 m
 - (B) 150 m
 - (C) 900 m
 - (D) None of these
- 90. Which is in ascending order?
 - (A) 1/3, 2/5, 3/5, 6/7
 - (B) 2/5, 1/3, 3/5, 6/7
 - (C) 1/3, 2/5, 6/7, 3/5
 - (D) 3/5, 6/7, 1/3, 2/5
- 91. The average of four consecutive odd numbers is 24. Find the largest number.
 - (A) 25
 - (B) 27
 - (C) 29
 - (D) 31
- 92. Sum of a rational number and its reciprocal is 13/6. Find the number
 - (A) 2
 - (B) 3/2
 - (C) 4/2
 - (D) 5/2

93.	Half of 1 percent written as decimal is (A) 5 (B) 0.5 (C) 0.05 (D) 0.005	97.	Who has been appointed as the Chief of Staff Committee, following the demise of General Bipin Rawat? (A) M.M. Naravane (B) Karambir Singh (C) R.K.S. Bhadauria (D) Vijay Kumar Singh
94.	A person incurs a loss of 5% be selling a watch for Rs. 1140. At what price should the watch be sold to earn 5% profit. (A) Rs. 1200 (B) Rs. 1230 (C) Rs. 1260 (D) Rs. 1290	98.	Which state after Haryana has recently announced 75% reservation in private sector jobs for locals? (A) Uttar Pradesh (B) Rajasthan (C) Uttarakhand (D) Jharkhand
95.	A fungal disease named 'Mucormycosis' is registered in COVID-19 patients of which state? (A) Kerala (B) Gujarat (C) Bihar (D) Assam	99.	The first-ever Haryana Sahitya Sangam has started in which city? (A) Faridabad (B) Panchkula (C) Gurgaon (D) Karnal
96.	"Energy Conservation Week" is observed every year in which month? (A) October (B) November (C) December (D) January	100.	The Ministry of Labour recently launched India's first national database on unorganised workers on which portal? (A) e-Shram portal (B) Samadhan portal (C) Atma Nirbhar Bharat portal (D) None of the above

ROUGH WORK

ANSWER KEY- Lab Technician MLT Answer Key

1. A	26. A	51. A	76. D
2. A	27. A	52. B	77. C
3. B	28. B	53. C	78. D
4. A	29. A	54. C	79. B
5. C	30. A	55. C	80. C
6. D	31. A	56. A	81. C
7. B	32. A	57. A	82. B
8. C	33. A	58. A	83. A
9. A	34. C	59. B	84. A
10. D	35. C	60. A	85. C
11. A	36. D	61. B	86. D
12. D	37. A	62. C	87. D
13. C	38. B	63. B	88. D
14. B	39. D	64. C	89. A
15. D	40. D	65. B	90. A
16. B	41. B	66. D	91. B
17. C	42. B	67. A	92. B
18. B	43. A	68. C	93. D
19. C	44. A	69. B	94. C
20. B	45. A	70. C	95. B
21. C	46. C	71. B	96. C
22. B	47. B	72. A	97. A
23. D	48. C	73. D	98. D
24. C	49. A	74. B	99. B
25. D	50. D	75. A	100. A
<u> </u>	•	•	