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Test Booklet Series

Α

## Written Test Paper, 2021

Paper No.

26

## **PHARMACIST**

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.

[P.T.O.

### PART-A

1.	The volume of distribution of a drug describes:	5.	$T_{aq}$ polymerase is used in PCR because of its
	(A) The apparent distribution of the drug		(A) Low thermal stability
	in the body		(B) High thermal stability
	(B) The concentration of the drug in		(C) High fidelity
	plasma		(D) High speed
	(C) The volume of plasma that is cleared		
	from the body (D) The concentration of the drug in blood	6.	Raynaud's phenomenon:
	(D) The concentration of the drug in blood		(A) Is characterised by vasodilation
2.	The vaccines prepared through recombinant		(B) Causes hot, red feet
	DNA technology are		(C) Starts as white patches of skin
	(A) First-generation vaccines		(D) May require vasodilator treatment
	(B) Second-generation vaccines	U	
	(C) Third generation vaccines	7.	Diabetic retinopathy:
	(D) Fourth generation vaccines		(A) Is reversible changes in the lens shape
			(B) Indicates long-standing uncontrolled
3.	An antibody probe is used in		diabetes
	(A) Southern blotting		(C) Presents with impaired drainage of the
	(B) Northern blotting		<ul><li>aqueous humour</li><li>(D) Is characterised by proteolytic enzymes</li></ul>
	(C) Western blotting		affecting the lens
	(D) Eastern blotting		
		8.	A significant clinical interaction may
4.	The first protein synthesized by recombinant		occur if St John's wort is administered
	DNA technology was		concomitantly with:
	(A) Streptokinase		(A) Gliclazide
	(B) Human growth hormone		(B) Simvastatin
	(C) Tissue plasminogen activator		(C) Sertraline
	(D) Human insulin		(D) Amoxicillin

- 9. Cutaneous squamous cell carcinoma:
  - (A) Forms metastases rapidly
  - (B) Arises from a mole
  - (C) May occur in scar tissue
  - (D) Is associated with poor prognosis
- 10. Each inhalation of Symbicort contains:
  - (A) Budesonide 200 μg and formoterol 6 μg
  - (B) Budesonide 160 μg and formoterol 4.5 μg
  - (C) Budesonide 200 mg and formoterol 6 mg
  - (D) Budesonide 160 mg and formoterol
    4.5 mg
- 11. Which of the following preparation is the most appropriate as a cream for the management of chronic symptoms of haemorrhoids?
  - (A) Lidocaine
  - (B) Cinchocaine
  - (C) Framycetin
  - (D) Hydrocortisone
- 12. A mother asks for a preparation for head lice. Which of the following agents could be recommended?
  - (A) Permethrin
  - (B) Alcohol
  - (C) Chlorhexidine
  - (D) Cetrimide

- 13. A patient requests lozenge for sore throat. Which of the following products is the most appropriate?
  - (A) Fungilin
  - (B) Contac
  - (C) Bradosol
  - (D) Nystan
- 14. An investigational medicinal product is:
  - (A) A product intended to induce a specific alteration in the immunological response
  - (B) A product prepared in a pharmacy in accordance with a prescription
  - (C) A product prepared from homeopathic stocks
  - (D) A pharmaceutical form of an active substance being tested or used in a clinical trial
- 5. In pharmaceutical manufacturing, the Qualified Person:
  - (A) Ensures that standards of good practice in manufacturing are complied with
  - (B) Establishes the period of validity of the manufacturer's licence
  - (C) May revoke a manufacturer's licence
  - (D) Advises the Licensing Authority on the granting of a manufacturer's licence

16.	Tetanus vaccine is indicated when a wound	20.	Micro emu	lsions contain globules of the size		
	is contaminated with:		about			
	(A) Oil		(A) I mic	ro meter		
	(B) Acid		(B) 0.1 m	icro meter		
	(C) Ethanol		(C) 0.01 i	micro meter		
			(D) 10 m	icro meters		
	(D) Soil					
		21.	Brownian 1	movement of particles		
17.	The drug which was used as 'LIE		(A) Preve	ent sedimentation		
	DETECTOR' during the Second world		(B) Enhan	nce sedimentation		
	war		(C) Assis	t in sedimentation		
	(A) Hyoscine		(D) Have	no effect on sedimentation		
	(B) Nitrous Oxide					
	(C) Chloroquine	22.	Protein bin	ding of a drug		
	(D) Carbamazepine		(A) Decre	eases distribution of the drug		
			(B) Decre	eases its half-life		
10	As the temperature increases the surface		(C) Enha	nces excretion of the drug		
18.	As the temperature increases, the surface tension		(D) Increa	ases bioavailability of the drug		
	(A) Increases	23.	The pH of	a buffer can be calculated using		
	(B) Decreases		(A) Ilkov	ic equation		
	(C) First increases and then decreases		(B) Hend	erson Hasselbalch equation		
	(D) No change and then decreases		(C) Mich	aelis-Menten equation		
			(D) Linev	veaver-Burk equation		
10						
19.	In plastic system, below yield value, the apparent viscosity is	24.	Part of solv	ent required per part of solute to		
	(A) Higher		dissolve sp	aringly soluble salt is		
			(A) From	1 to 10		
	(B) Fixed		(B) From	10 to 30		
	(C) Normal		(C) From	30 to 100		
	(D) Infinite		(D) From	100 to 1000		

- 25. Electro dialysis is a method for the purpose of
  - (A) Identification
  - (B) Preparation
  - (C) Purification
  - (D) Stabilization
- 26. The pH of tears is about
  - (A) 6.0
  - (B) 8.0
  - (C) 7.4
  - (D) 9.0
- 27. Which order of reaction is followed by photo decomposition of the drug
  - (A) First order
  - (B) Pseudo First order
  - (C) Second order
  - (D) Zero order
- 28. The rate of hydrolysis is dependent on
  - (A) pH
  - (B) Buffers
  - (C) pH and temperature
  - (D) Temperature

- 29. In metal ion complex, which of the following is true
  - (A) Ligands act as Lewis bases and the central atom acts as a Lewis acid.
  - (B) The central atom acts as Lewis bases and ligands act as a Lewis acids.
  - (C) Ligands bond by forming hydrogen bonds.
  - (D) This is a simple example of the formation of a complex ion with a positive charge.
- 30. Auxiliary emulsifying agents stabilize the emulsion by
  - (A) Adjusting the viscosity of continuous phase
  - (B) Changing the hydrophilic-lipophilic balance
  - (C) Strengthening the polar head of emulsifier
  - (D) Strengthening the non-polar head of emulsifier
- 31. Errors arising when the individual analyst is responsible for them
  - (A) Method error
  - (B) Instrumental error
  - (C) Personal error
  - (D) Random error

- 32. Which theory states that acid is a substance which dissociates in water to produce hydrogen ions
  - (A) Arrhenius theory
  - (B) Lewis theory
  - (C) Bronsted-Lowry theory
  - (D) Lowry theory
- 33. 20 gm NaOH in 500 ml =
  - (A) 0.1 N
  - (B) 1.0 N
  - (C) 0.5 M
  - (D) 0.05 N
- 34. Potentiometry is which type of method?
  - (A) Qualitative
  - (B) Chromatographic
  - (C) Classical
  - (D) Electro-chemical
- 35. The number of gm-equivalent of the solute per liter of solution is known as
  - (A) Normality
  - (B) Molarity
  - (C) Molality
  - (D) Mole fraction

- 36. The chemical reagent from which solution of required concentration can be prepared is
  - (A) Secondary standard
  - (B) Dilute solution
  - (C) Concentrated solution
  - (D) Primary standard
- 37. The quantity of chemical in each liter of solution is known as
  - (A) Normality
  - (B) Strength
  - (C) Molecular Weight
  - (D) Equivalence Weight
- 38. Which of the following indicators has a transition point closest to the equivalence point for the titration of a weak acid by a strong base?
  - (A) Orange IV
  - (B) Thymol blue
  - (C) Methyl orange
  - (D) Bromocresol green
- 39. Which of the following indicators is yellow at a pH of 10.0?
  - (A) Methyl red
  - (B) Phenol red
  - (C) Thymol blue
  - (D) Methyl violet

40. A buffer solution may contain equal The electrolyte used for tin plating is 44. moles of Sulphide ore (A) (B) Stannous sulphate (A) Weak add and strong base. Hydrogen sulphate (C) Strong acid and strong base. (B) (D) Sodium chloride (C) Weak acid and its conjugate base. (D) Strong acid and its conjugate base. An electrochemical cell is also called 45. (A) Battery cell (B) Galvanic cell The pH at which an indicator changes colour 41. (C) Electrolytic cell is known as its Chargeable cell (D) Standard point. Transition point. (B) Electrochemical cells convert which of these into electrical energy? Equivalence point. (C) (A) Mechanical energy (D) Stoichiometric point. (B) Potential energy (C) Kinetic energy On an industrial scale, sodium metal is 42. Chemical energy (D) prepared by electrolysis of fused (A) NaCl 47. Voltaic cells generate electricity by (A) Spontaneous redox reaction (B) NaO Non-spontaneous redox reaction (B) (C) NH<sub>3</sub> (C) Sublimation reaction (D) NaOH (D) Thermochemical reaction In chromium plating, few drops of sulphuric 48. 43. Corrosion can be prevented by acid are added to the electrolyte to prevent Alloying (A) (A) Oxidation Tinning (B) (B) Reduction **Hydrolysis** (C) (C) Galvanising (D) Sublimation (D) All of above

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49.	The electrodes used in the production of sodium metal are	53.	Which cranial nerve is attached with the eye?	
	(A) Iron cathode and graphite anode		(A) 2nd	
	(B) Sodium cathode and carbon anode		(B) 4th	

(C) Aluminum cathode and fluoride anode(D) Aluminum cathode and sodium anode(D) 8th

Anorexia

(A) Distal convoluted tubules

- 50. Accumulation of carbon dioxide gas in lungs is called(A) Anoxia54. The longest skeletal muscle in the body is lungs is called
  - (B) Quadriceps femoris
    (C) Supinator
  - (D) Sartorius
- 51. Glucose reabsorption takes place mainly in

  (A) Clear to white fluid
  - (B) Reddish fluid
    (C) Light brown fluid
    - C) Proximal convoluted tubule (C) Light brown fluid (D) Pinkish fluid
  - (D) Loop of Henley (D) Pinkish fluid
- 52. The hormone concerned with the basic metabolic rate is examples of
  - metabolic rate is

    examples of

    (A) Thyroxin

    (A) Osmosis
  - (A) Thyroxin(B) Parathormone(B) Diffusion
  - (C) Adrenaline (C) Passivetransport
  - (D) Calcitonin (D) Active transport

57. Which of the following system eliminates The association of endotoxin in gram-61. excess nitrogen from the body? negative bacteria is due to the presence of (A) Digestive system (A) Steroids Urinary system Peptidoglycan (B) (C) Respiratory system (C) Lipopolysaccharides (D) Lymphatic system (D) Polypeptide 58. Which system protects deeper tissues from 62. Which of the following is not a recognised cause of diarrhoea? injury? (A) Vibrio cholerae (A) Immune system (B) Escherichia coli Musculo-skeleton system (C) Clostridium perfringens (C) Integumentary system Enterococcus faecalis (D) Lymphatic system (D) All of the following are the rapid and Which of the following terms describes the 63. confirmatory staining techniques for Acid body's ability to maintain its normal state? fast bacteria, Except? (A) Anabolism Ziehl neelsen method (B) Catabolism (B) Fluorochrome stain (C) Tolerance (C) Dorner method (D) Homeostasis (D) Kinyoun method Which of the following closes and seals off 60. the lower airway during swallowing? 64. Typhoid fever affects (A) Respiratory system (A) Vocal cords **Epiglottis** Urogenital system (B) Gastrointestinal system (C) Larynx (C) (D) Uvula (D) Skin

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- 65. Meningitis is an infection of
  - (A) The peripheral nervous system
  - (B) The covering of the spinal cord and brain
  - (C) The spinal cord and brain
  - (D) The blood brain barrier
- 66. A pandemic is
  - (A) Worldwide outbreak of a disease
  - (B) Disease outbreak in a country
  - (C) Disease that spreads easily and rapidly
  - (D) Vector of infection is unknown
- 67. A Plasma membrane is made up of
  - (A) Proteins and carbohydrates
  - (B) Proteins and lipids
  - (C) Lipids and carbohydrates
  - (D) Proteins, lipids and carbohydrates

- 68. Plasma cells and memory cells are responsible for
  - (A) Inflammation
  - (B) Cell mediated response
  - (C) Humoral response
  - (D) Complement cascade
- 69. MMR protects against which three diseases?
  - (A) Measles, malaria and rabies
  - (B) Monkey pox, mumps, rabies
  - (C) Measles, mumps, rubella
  - (D) Monkey pox, mumps, rubella
- 70. Which of the following is not a risk factors of fungal respiratory infections?
  - (A) Prolonged steroid therapy
  - (B) Postpartum state
  - (C) Genetic predisposition
  - (D) Post splenectomy state

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11

### PART-B

71.	25	:	37	:	:	49	:	?

- (A) 41
- (B) 65
- (C) 56
- (D) 60

- 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

## 72. Find the missing character?



75. QAR, RAS, SAT, TAU, \_\_\_\_\_

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



- (B) 12C
- (C) 13C
- (D) 7C

- 76. Choose the word which is different from the rest.
  - (A) Pear
  - (B) Apple
  - (C) Litchi
  - (D) Orange

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

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

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

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78.	Look, a new missile	82.	He reminds us Paul Walker.
	(A) is launched		(A) about
	(B) is launch		(B) of
	(C) is being launch		(C) for (D) with
	(D) is being launched		(D) with
		83.	Find the minimum number of straight lines
79.	The paths of glory lead to the grave.		required to make the given figure.
	(A) straight		
	(B) but		
	(C) in		
	(D) directly		(A) 13
			(B) 15 (C) 17
80.	You haven't had your lunch yet,		(C) 17 (D) 19
	you?		
	(A) are	84.	Select the figure that does NOT belong in
	(B) aren't		the following group.
	(C) have		
	(D) haven't		
			A B C D
81.	Which sequence makes a correct sentence?		
	1. tea		(A) B (B) A
	2. have		(C) D
	3. that		(D) C
	4. some		
	5. before	85.	P, Q, R and S are four friends. P is shorter
	(A) 43251		than Q but taller than R who is shorter than S. Who is the shortest among all?
	(B) 24315		(A) P
	(C) 24153		(B) Q
	(D) 52431		(C) R
	(D) 32731		(D) S

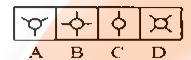
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86. Select the Answer figure that fits in the blank space in the given problem figure.

## **Problem Figure**

ф	ム	$\phi$
Q	φ.	ф
Ø	<b>ф</b>	?

**Answer Figure** 



- (A) D
- (B) C
- (C) B
- (D) A

- 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
- 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

- 91. The average of four consecutive odd numbers is 24. Find the largest number.
  - (A) 25
  - (B) 27
  - (C) 29
  - (D) 31
- 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

- 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	5	Who has been appointed as the Chief of Staff Committee, following the demise of General Bipin Rawat?
	(B) 0.5	(	(A) M.M. Naravane
	(C) 0.05	(	B) Karambir Singh
	(D) 0.005	(	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	а	Which state after Haryana has recently announced 75% reservation in private sector obs for locals?
	(B) Rs. 1230	(	(A) Uttar Pradesh
	(C) Rs. 1260 (D) Rs. 1290		<ul><li>(B) Rajasthan</li><li>(C) Uttarakhand</li><li>(D) Jharkhand</li></ul>
95.	A fungal disease named 'Mucormycosis' is registered in COVID-19 patients of which state?		The first-ever Haryana Sahitya Sangam has started in which city?
95.	registered in COVID-19 patients of which	S	
95.	registered in COVID-19 patients of which state?	s (	started in which city?
95.	registered in COVID-19 patients of which state?  (A) Kerala	s (	started in which city?  (A) Faridabad
95.	registered in COVID-19 patients of which state?  (A) Kerala  (B) Gujarat	s ((	started in which city?  (A) Faridabad  (B) Panchkula
95. 96.	reg istered in COVID-19 patients of which state?  (A) Kerala (B) Gujarat (C) Bihar (D) Assam	s ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	ctarted in which city?  (A) Faridabad (B) Panchkula (C) Gurgaon
	reg istered in COVID-19 patients of which state?  (A) Kerala (B) Gujarat (C) Bihar (D) Assam	S ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	started in which city?  (A) Faridabad  (B) Panchkula  (C) Gurgaon  (D) Karnal  The Ministry of Labour recently launched andia's first national database on unorganised
	reg istered in COVID-19 patients of which state?  (A) Kerala (B) Gujarat (C) Bihar (D) Assam  "Energy Conservation Week" is observed every year in which month?	00. T	A) Faridabad B) Panchkula C) Gurgaon D) Karnal  The Ministry of Labour recently launched andia's first national database on unorganised workers on which portal?
	reg istered in COVID-19 patients of which state?  (A) Kerala (B) Gujarat (C) Bihar (D) Assam  "Energy Conservation Week" is observed every year in which month?  (A) October	00. T	A) Faridabad B) Panchkula C) Gurgaon D) Karnal  The Ministry of Labour recently launched andia's first national database on unorganised workers on which portal?  (A) e-Shram portal

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## **Pharmacist Answer Key**

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