SCSS-ST-22 PCB

Question Booklet Sr. No.

221287

Date: 20/03/2022

Time: 2.30 Hrs.

Marks: Section-A = 30 + Section-B = 320 = 350

Important Instructions:

- 1. Immediately fill the particulars on this page of the Test Booklet as well as Answersheet with Black or Blue Ball Pen. *Use of pencil is strictly prohibited*.
- 2. Do not open this Test Booklet unitlyou are asked to do so.
- 3. This Test Booklet contains of 110 questions.
- 4. There are two sections in the question paper i.e. Section–A and Section–B.
- 5. The **Section–A** contains three parts i.e. Part–I, Part–II and Part-III.
- 6. The Part-I contains 10 questions of English.
- 7. The Part-II contains 10 questions of Mental Ability.
- 8. The Part-III contains 10 questions of Basic Mathematics.
- 9. In Section–A, each question carries ONE mark. There is no negative marking system.
- 10. The Section-B contains THREE parts i.e. Part-I, Part-II and Part-III.
- 11. The Part-I contains 20 questions of Physics.
- 12. The Part-II contains 20 questions of Chemistry.
- 13. The Part-III contains 40 questions of Biology.
- 14. In the **Section–B**, each question carries **4** marks. There is negative marking system. For each wrong answer **1** mark will be deducted.
- 15. There are four choices for every question, out of which only one choice is most correct
- 16. Filling up more than one responses in any question will be treated as wrong response ar marks for this will be deducted according to negative system.
- 17. No candidates is allowed to carry any printed or written textual material, bits of papers, cell phone and any other electronic devices.
- 18. Rough work is to be done on the space provided in the Test Booklet only.
- 19. On completion of the test, the candidate must hand over the Answer Sheet to the Invigilator on duty. However, candidates are allowed to take away this Question Paper with them.
- 20. Do not fold or make any stray marks on the Answer Sheet.

Name of the Candidate (in Capital letters):	
Seat No: In figures	Legite dixerfel
do Hamowoo.	aug ne na chl

	Section - A : (Pa	art–I -	– English)
Inst	ruction:		
	Select from the answer choices given und	er the	e sentence to form grammatically correct
_	sentence:		
01.	Neither the salesman nor the marketing i		
	1) is favouring	2)	is in favour
.	3) are in favour	4)	are for favour
Inst	truction:		
00	Idenity the part that contains an error.	(a) / c	ester then (D) / before
02.	These days (A) / news are (B) / travelling 1) A	(C) / 13 2)	B
	1) A 3) C	4)	D D
Inai	truction:	'± /	Ь
1112	Choose the one which best replaces the u	ınderl	ined words
03.	My father is suffering from diabetes, for t		
00.	1) is suffer	2)	has been suffering
	3) has suffered	4)	no change
Inst	truction:	,	0
	Find the word that conveys the same mea	aning.	
04.	APPLAUD.	Ü	
	1) rebuke	2)	slam
	3) praise	4)	condemn
Inst	truction:		
	Select the word that is opposite in meani	ng.	
05.	BENIGN.		
	1) sick	2)	poor
_	3) damaged	4)	evil
Inst	truction:		,
	Select the pair of words to replace the qu	estion	n mark.
06.	Sonnet: Line:: $\underline{?}$: $\underline{?}$.		
	1) Ballad: Poetry	2)	Novel: Chapter
	3) Epic: Ode	4)	Game: Score
Inst	truction :		
	Choose the one that can be substituted for	r the	given phrase:
07.	A fool's Paradise means:		
	1) a foolish idea	2)	an imaginary idea
	3) an unexpected gain for foolish man	4)	false hopes
Inst	truction:	. •	
6.0	Find out the correct meaning of the Idior	natic	expression:
08.	Token strike:	<u>a)</u>	6 13 - 1 - 1 - 1 - 1
	1) total strike	2)	carefully planned strike
T	3) short strike held as warning	4)	sudden call of strike
	truction:		
09.	Choose the correctly spelt word:	o)	Homoruos
	1) Humorrous 3) Humourous	2) 4)	Humorous
Inc	3) Humourous truction:	4)	Humorous
THE	Choose the correct alternative out of the	four (choices to complete the sentence
10.	I wonder if they will change plar		more to complete the sentence.
10.	1) there	2)	they're
	3) their	4)	theirs

(2)

(P.T.O.)

SCSS-ST-PCB-22

(Part-II - Mental Ability)

11. Find the missing term in following number series. 1, 3, 3, 6, 7, 9, ?, 12, 21

1) 10

2) 11

3) 12

4) 13

12. Which term comes next in the series : BMO, EOQ, HQS, ?.

1) KSU

2) LMN

3) SOV

4) SOW

13. Botany: Plants:: Entomology:?

1) Snakes

2) Insects

3) Birds

4) Germs

14. In a certain system of coding, the word STATEMENT is written as TNEMETATS. In the same system of coding, what should be the code for the word POLITICAL?

1) LACITILOP

2) LCATILIOP

3) OPILITACL

4) None of these

15. A man pointing to a photograph says, "The lady in the photograph is my nephew's maternal grandmother." How is the lady in the photograph related to the man's sister who has no other sister?

1) Cousin

2) Sister-in-law

3) Mother

4) Mother-in-law

16. Kunal walks 10 km towards North. From there he walks 6 km towards South. Then, he walks 3 km towards East. How far and in which direction is he with reference to his starting point?

1) 5 km West

2) 7 km West

3) 7 km East

4) 5 km North-east

17. It being given that :> denotes +, < denotes -, + denotes \div , - denotes =, = denotes 'less than' and \times denotes 'greater than', find which of the following is a correct statement.

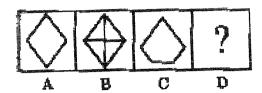
 $1) \qquad 3+2 > 4 = 9+3 < 2$

3 > 2 > 4 = 18 + 3 < 1

3) $3 > 2 < 4 \times 8 + 4 < 2$

4) $3+2 < 4 \times 9 + 3 < 3$

Figures A and B are related in a particular manner. Establish the same relationship 18. between figures C and D by choosing a figure from amongst the four alternatives, which would replace the question mark in fig. (D).











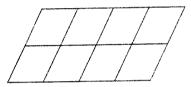








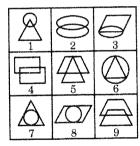
How many parallelograms are there in the following figure? 19.



- 1) 20
- 3) 28

- 24 2)
- 4) 30

In following question group the given figures into three classes using each figure only 20.



- 1, 5, 9; 2, 7, 8; 3, 4, 6 1)
- 3) 2, 4, 9; 6, 7, 8; 1, 3, 5

- 2) 1, 5, 6; 4, 7, 8; 2, 3, 9
- 3, 7, 8; 4, 5, 9; 1, 2, 6

(Part-III - Basic Mathematics)

21.	The	distance travelled by the ti	p of the minute	hand in 10 minutes when the length of
	it is	20 cm is		
	1)	$20.95 \mathrm{m}$	2)	20.95 cm
	3)	$2.095~\mathrm{cm}$	4)	209.5 cm
22.	The	two numbers M and N are s	such that 60% of	f M is equal to 20% of N, then $N = x\%$ of
	M tl	nen x is		
	1)	300	2)	350
	3)	400	4)	100
23.	If x	+ y = 18, y + z = 24, z + x = 2	22 then the value	e of $(x^2 + y^2 + z^2 + 2xy + 2yz + 2zx)$ is
	1)	1024	2)	289
	3)	144	4)	256
24.	If A	(-2, -1), B(a, 0), C(4, b) and	d D (1, 2) are ve	ertices of the parellelogram ABCD then
	valu	es of a + b is		
	1)	2	2)	-4
	3)	3	4)	4
25.	If 10	$y^{x+y} = 6$ and $6^{a+b} = 10$ then th	e values of (x+	$(a+b)^{100}$.
	1)	1	2)	100
	3)	10^{100}	4)	6^{100}
26.	If a	cricket bowler throws a ball	with a speed of	324 km/hr, then find the time taken by
	the l	ball to reach the wicket at th	ne other end of t	the pitch. If the length of the pitch is 45
	mete	er from one end to other.		
	1)	$0.5~{ m sec}$	2)	0·7 sec
	3)	0.7 set	4)	0·9 sec
THE STREET WANTED		Sı	oace for Rough Wo	ork

A shot-putt is a mettalic sphere of radius 4.9 cm. If the density of the metal is 7.8 g per
cm ³ , then the mass of the shot-putt is

1) 3.85 kg

2) 2.85 kg

3) 1.85 kg

4) 0.85 kg

28. If $\sin \theta = \frac{1}{\sqrt{2}}$ then the value of $\frac{2\sin^2 \theta + 3\cot^2 \theta}{4\tan^2 \theta - \cos^2 \theta}$ is equal to

1) $\frac{9}{8}$

 $\frac{8}{6}$

3) $\frac{7}{8}$

4) $\frac{8}{7}$

29. \triangle ABC is right angle triangle where AB = 3, BC = 4 and AC = 5 than radius of circumcircle of the \triangle ABC is

1) 4

2) 3/2

3) 5/2

4) None of these

30. The abscissa of ends of diameter of the circle is root of the equation $x^2 - 4x + p = 0$ and the ordinates of the ends of the diameter of the circle is root of the equation $y^2 + 6y + q = 0$ then centre of the circle is

1) (-2, 3)

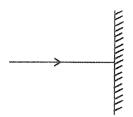
(2, -3)

(-4, -3)

4) (2, 3)

Section - B: (Part -I - Physics)

31. A ray of light strikes a surface of a plane mirror as shown, then the angle of deviation is



1) 0°

2) 90°

3) 180°

4) none of these

32. When light rays from the sun fall on a convex lens along a direction parallel to its axis

- 1) focal length of all colours is same
- 2) focal length for violet colour is the shortest
- 3) focal length for yellow colour is the longest
- 4) focal length for red colour is the shortest

33. The wide field of view can be attained using the following optical instrument is

1) plane mirror

2) concave mirror

3) convex mirror

4) all the above

34. Identify the property of a magnet

1) Attractive property

2) Directive property

3) Inductive property

4) all the above

35. Choose the wrong one about the electromagnet

- 1) it is a temporary magnet
- 2) it can produce strong magnetic field
- 3) its polarity can be changed by changing the direction of current in the coil
- 4) its strength cannot be changed

36. The strength of an electromagnet depends on

- 1) the number of turns in the coil
- 2) the current in the solenoid
- 3) the nature of the coil material
- 4) all the above

37. A charge of 0.01 coulomb is crossing a cross-section within a time interval of 10 second. The current strength in ampere can be

1) 10^{-1} A

 $2) 10^{-2} A$

3) 10^{-3} A

4) 10^{-4} A

38. A current of 2.25 A is passing in a conductor of cross-section 0.25 cm⁻², the amount of charge that passes through the cross-section in 12 second can be

1) (3°) coulomb

2) (31) coulomb

3) (3^2) coulomb

4) (33) coulomb

39.	The	electromotiv	e force of a cel	l is 24 V, if it	s ne	gative plate is of -24 volt, the voltage of
	the	positive plat	e can be			
	1)	zero			2)	24 volt
	3)	12 volt			4)	can't say
40.	In a	n electric cir	cuit with a ce	ll of emf 'ε' ε	and	resistance 'r', the current strength is 'I',
	then	n, at any cros	ss-section of th	ne conductor,	in u	unit time.
	1)	$\frac{\varepsilon}{r}$ amount	of positive cha	arge goes in t	the (direction of current
	2)	$\frac{\varepsilon}{r}$ amount	of charge goes	s in all direct	ions	at a given cross-section
	3)	$\frac{\varepsilon}{r}$ amount	of negative ch	arge goes op	posi	te to the direction of current
	4)	all the abo	ve			
41.	Gra	vitational fo	rce is			
	1)	Real force			2)	Pseudo force
	3)	Imaginary	force		4)	None of these
42.			elocity with wh e influence of			nass 1 kg must be projected so that it will hal field is
	1)	11.2 m/s			2)	11.2 km/h
	3)	11.2 km/mi	n		4)	$11.2 \mathrm{km/s}$
43.	A 10	00 W electric	bulb is used for	or 5 hours eve	ry d	ay. How much electricity does it consume
		week?				
	1)	$0.35~\mathrm{kwh}$			2)	3.5 kwh
	3)	35 kwh			4)	$3500~\mathrm{kwh}$
44.	Swa	ara takes 10	s to carry a baş	g weighing 10	kg	to a height of 10 m. How much power has
		used		, , ,		
	1)	98 watt			2)	100 watt
	3)	10 watt			4)	none of these
45.	The	working of	a rocket depen	ds on Newto	n's .	law of motion
	1)	First	•		2)	Second
	3)	Third			4)	None of these
				Space for Rou	igh V	Vork

- 46. 2 balls have masses of 25 gm and 100 gm respectively & they are moving along the same straight line before and after the collision, in the same direction. The initial velocities of the balls are of 12 ms⁻¹ and 6 ms⁻¹ respectively. They collide with each other, then after the collision, the first ball moves with a velocity of 10 ms⁻¹. Calculate the velocity of the other ball after the collision
 - 1) 16 m/s

2) 12 m/s

3) 11 m/s

- 4) 6.5 m/s
- 47. Which of the following is a contact force
 - 1) electrostatic force

2) gravitational force

3) frictional force

- 4) magnetic force
- 48. A man travels a distance of 1 m towards east, then 3m towards south and finally 3m towards east. Find the distance and displacement of the man.
 - 1) 7 m, $3\sqrt{2}$ m

2) $3\sqrt{2}$ m, 7 m

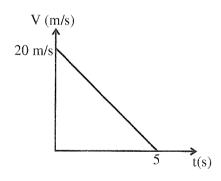
3) 7m, 5 m

- 4) 5m, 7m
- 49. Which of the quantity decides the direction of motion of the body?
 - 1) speed

2) velocity

3) acceleration

- 4) displacement
- 50. Particle moving with initial velocity of 20 m/s is subjected to uniform retardation as shown in figure. Find the following i) displacement of the particle in five seconds & ii) Retardation of the particle



1) $5 \text{ cm}, -4 \text{ m/s}^2$

2) $25 \text{ m}, 4 \text{ m/s}^2$

3) $50 \text{ m}, 4 \text{ m/s}^2$

4) $100 \text{ m}, -4 \text{ m/s}^2$

Part II - Chemistry

51.	Wha	at is the harmful effect of the deple	tion of E	Earth's ozone layer?			
	1)	Average temperature of earth's su	urface wi	ill decrease gradually.			
	2) The oxygen content of atmosphere will increase.						
	3)	Increased amount of ultraviolet ra	adiation	will reach on earth's surface.			
	4)	None of these					
52.	Wh	o discovered electrons?					
	1)	E. Goldestin	2)	J. J. Thomson			
	3)	Rutherford	4)	James Chadwick			
5 3.	The	e density of nitrogen gas is maximur	n at				
	1)	STP	2)	273K and 1 atm			
	3)	$546~\mathrm{K}$ and $2~\mathrm{atm}$	4)	$546~\mathrm{K}$ and $4~\mathrm{atm}$			
54.	Wh	ich one of the following is the poore	est cond	uctor of electricity?			
	1)	Copper	2)	Aluminium			
	3)	Lead	4)	Silver			
55.	Hov	w many sigma (σ) and pi (π) bond	s are pre	esent in salicylic acid?			
		COOH					
		OH					
	1)	$10\sigma,4\pi$	2)	16σ , 4π			
	3)	$16\sigma, 4\pi$ $16\sigma, 16\pi$	4)	$18\sigma, 2\pi$			
F.0							
56.			ns an 10.	nic, covalent and coordinate bonds? Cl ₂			
	1) 3)	$_{12}^{\mathrm{O}}$	4)	$_{ m NH_4Cl}$			
- -		$ m H_2SO_4$	4)	1111401			
57.		ich of the following is Boyle's law?	Maranh	on of moles veletionship			
	1)	Temperature is constant, Volume					
	2)	Pressure is constant, Volume —Te	_				
	3)	Volume is constant, Temperature					
	4)	Temperature is constant, Pressu					
58.				ning 5 moles of O_2 and 5 moles of $\mathrm{~N}_2$ is			
	1)	32	2)	28			
	3)	30	4)	7.5			
59.		olution which gives pink colour witl					
	1)	2	2)	5			
	3)	12	4)	7			

60.	The	e general formula of alkynes is		ind had				
00.		·						
	1)	C_nH_{2n+2}	2)	C_nH_{2n+1} C_nH_{2n-1}				
	3)	C_nH_{2n-2}	4)	C_nH_{2n-1}				
61.	Wh	nich of the following is the ionic part of	of soap	?				
	1)	COO ⁻ Na ⁺	2)	SO ₃ ⁻ Na ⁺				
	3)	OSO ₃ ⁻ Na ⁺	4)	None of these				
62.	The	e ionic radius (in A°) of N ⁻³ , O ⁻² and I	F- are	respectively				
	1)	1.71, 1.40 and 1.36	2)	1.71, 1.36 and 1.40				
	3)	1.36, 1.40 and 1.71	4)	1.36, 1.71 and 1.40				
63.	Anl	nydrous ferrous sulphate salt on heat	ing giv	ves				
	1)	SO_2 and SO_3	2)	SO_2 only				
	3)	SO_3 only	4)	S only				
64.	In t	In the extraction of Aluminium, the function of cryolite is to						
	1)	lower the melting point of alumina						
	2)	increase the melting point of alumi	na					
	3)	remove the impurities from alumin	a					
	4)	decreases the conductivity of alumi	ina					
65.	2 m	l of acetic acid was taken in each of te	st tube	s A,B and C and 2 ml, 4 ml, 6 ml of water				
		added respectively to them. A clear	solutio	n is obtained in				
	1)	test tube A	2)	test tube B				
	3)	test tube C	4)	all the test tubes				
66.	Whi	ich of the following metal reacts faste	st witl	n ethanol?				
	1)	Aluminium	2)	Sodium				
	3)	Magnesium	4)	Calcium				
67.	IUP	AC name of higher homologue of CH	$_3(\mathrm{CH}_2)_2$	₂ OH is				
	1)	Propan -1-ol	2)	Hexan-1-ol				
	3)	Butan-1-ol	4)	Pentan-1-ol				
68.	Whi	ch of the following will undergo addi	tion re	eaction?				
	1)	Ethane	2)	Ethene				
	3)	Propane	4)	Butane				

69. Propane + Cl_2 sunlight (A) + (B); (A) and (B) are

- 1) chloroethane and chloromethane
- 2) 1-chloropropane and chloroethane
- 3) 2-chloropropane and chloromethane
- 4) 2-chloropropane and 1-chloropropane
- 70. Total number of sigma (σ) and pi (π) bonds are present in the given compound

$$NC \longrightarrow C = C C \equiv N$$

$$NC \longrightarrow C = N$$

1) $9\sigma,9\pi$

2) $6\sigma, 9\pi$

3) $9\sigma,6\pi$

4) $6\sigma, 6\pi$

Space for Rough Work

(P.T.O.)

Part III - Biology

71. F	ollowing	are	the	characters	of	monocot	plants
-------	----------	-----	-----	------------	----	---------	--------

- a) Seeds contain only one cotyledon in the embryo
- b) Leaves are isobilateral, with parallel venation
- c) Fibrous root system is present
- d) Presence of trimerous flowers
- 1) a and b are correct

- 2) b, c and d are correct
- 3) a, b, c and d are correct
- 4) a, b, c and d are incorrect
- 72. From the following list how many organisms are belongs to kingdom Monera?

Euglena, Volvox, Amoeba, Paramecium, Staphylococcus, Clostridium, Salmonella, Aspergillus, Penicillium

1) Nine

2) Five

3) Three

- 4) Two
- 73. Translocation of food in the plant body takes place by phloem is
 - 1) Upward direction only
 - 2) Downward direction only
 - 3) Bidirectional
 - 4) Either upward or downward direction
- 74. Match the column-I with column-II

Wilderson	Column–I		Column-II
A)	Stomata	a)	Impervious to gases
B)	Root hair	b)	Exchange of gases
C)	Suberin layer	c)	Transportation of food
D)	Phloem	d)	Water absorption
1)	A - b, $B - d$, $C - c$, $D - a$	2)	A - b, $B - a$, $C - d$, $D - c$
3)	A b B d C a D a	4)	A D 1 C 1 D

- 3) A b, B d, C a, D c
- 4) A c, B d, C b, D a
- 75. If a bacterial cell divides every 20 min. Then how much time required to formation 8 bacterial cells
 - 1) 20 min.

2) 40 min.

3) 1 hr.

- 4) 2 hr.
- 76. Find out the **True** or **False** statement from the following.

 \mathbf{A} – Environmental triggers such as light or gravity will change the directions of that plant parts.

B - In plant, stem grows towards the light while roots grows away from the light.

1) A - True, B - True

2) A - True, B - False

3) A - False, B - True

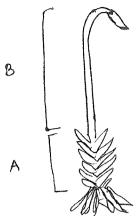
- 4) A False, B False
- 77. If 12 molecules of NADH₂ enter into electron transfer chain then number of ATP molecules generated through ETS of mitochondira is/are
 - 1) 3 ATP

2) 24 ATP

3) 36 ATP

4) 48 ATP

78. Labelled A and B in the following diagram of funaria.



- 1) A Gametophyte, B Gametophte
- 2) A Sporophyte, B Sporophyte
- 3) A Gametophyte, B Sporophyte
- 4) A Sporophyte, B Gametophyte
- 79. Assertion: Cytokinesis in animal cells takes place by the formation of clean furrow.

Reason: Cytokinesis in plant cells takes place by the formation of cells plate.

- 1) Both assertion and reason are correct statement, reason is correct explanation of assertion
- 2) Both assertion and reason are correct statement, reason is not correct explanation of assertion
- 3) Assertion is incorrect but reason is correct
- 4) Both are incorrect statement
- 80. Respiration takes place in absence of molecular oxygen is _____
 - 1) Aerobic

- 2) Anaerobic
- 3) Aerobic and Anaerobic
- 4) Fermentation and aerobic
- 81. Colour blindness is example of
 - 1) Dominant Y linked disease
- 2) Recessive X linked disease
- 3) Dominant X linked disease
- 4) Recessive Y linked disease
- 82. Find out the numbers of correct statement from the following.
 - A) Production of various useful aquatic organisms with the help of water is called as green revolution
 - B) Grasses like alfalfa, clover and rye are used in phytoremediation
 - C) Organic manure and chemical fertilizer are types of fertilizer
 - 1) One

2) Two

3) Three

- 4) All
- 83. Important method used in animal husbandary is/are
 - 1) Artificial insemination
- 2) Embryo transfer

3) Both '1' and '2'

4) Neither '1' nor '2'

84. Match the column-I with column-II

240000000000000000000000000000000000000	Column-	-I (Phenotype)	Colu	umn-II (Genotype)
A)	Round an	d Yellow	a)	YYrr
B)	Wrinkled	and yellow	b)	yyrr
C)	Round an	d green	(c)	YYRR
D)	Wrinkled and green		d)	Yyrr
			e)	YyRr
			f)	RRyy
			g)	YyRR
	A	В	C	D
1)	c, e, f	a, d	${f f}$	b, a
2)	g	c, e	a, d	f, b
3)	c, e, g	a, d	${f f}$	b
4)	e, f, a	d, g	f, a	b, e

- 85. Yoghurt has a specific sour taste due to
 - 1) Rhizobium

2) Lactic acid

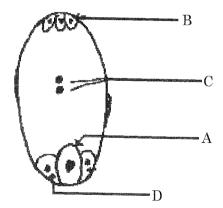
3) Yeast

- 4) Penicillin
- 86. The details double helical structure of DNA was given by
 - 1) G. Mendel

2) Watson and Crick

3) Carl Linnaeus

- 4) Kopland
- 87. Find out the name of A, B, C and D in the given diagram of embryo sac of angiospermic plant



- 1) A Synergid, B Antipodals, C Polar nuclei, D Egg cell
- 2) A Polar nuclei, B Egg cell, C Synergid, D Antipodal
- 3) A Antipodals, B Synergid, C Egg cell, D Polar nuclei
- 4) A Egg cell, B Antipodals, C Polar nuclei, D Synergid

88. Match the column-I with column-II

	Column-I (Name of disease)		Column-II (Pathogen)
A)	AIDS	a)	Virus
B)	Cholera	b)	Bacteria
C)	Dandruff	c)	Protozoa
D)	Dengue	d)	Fungi
1)	A-a, $B-c$, $C-b$, $D-d$	2)	A - b, $B - a$, $C - c$, $D - d$
3)	A - a, $B - b$, $C - d$, $D - a$	4)	A - d, $B - b$, $C - b$, $D - c$

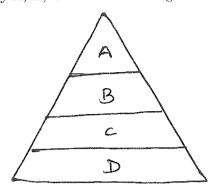
- 89. Important process of the nitrogen cycle is
 - 1) Nitrogen fixation

2) Ammonification

3) Nitrification

4) More than one option is correct

90. Identify A, B, C and D. In the given trophic levels



	A	В	\mathbf{C}	D
1)	Producers	Herbivores	Carnivores	Omnivores
2)	Carnivores	Omnivores	Producers	Herbivores
3)	Herbivores	Producers	Omnivores	Carnivores
4)	Omnivores	Carnivores	Herbivores	Producers

91. Peripates is connecting link between phylum Annelida and arthropoda. The characters related to phylum are given below. Find out the correct match of phylum and characters.

	Phylum		Characters
A)	Annelida	I)	Segmented body
B)	Arthropoda	1	Parapodia
		III)	Tracheal respiration
			Open circultory system
		V)	Chitinous exoskeleton
1)	A – I, II, V , B – III, IV	2)	A - I, II, $B - III$, V
3)	A - II, IV, B - I, III	4)	A - I, III , $B - II$, IV

92. Assertion: Tendon is white fibrous connective tissue and connect muscles to bone.

Reason: Tendon is made up of elastic tough collagen protein fiber.

- 1) Both assertion and reason are correct statement, reason is correct explanation of assertion
- 2) Both assertion and reason are correct statement, reason is not correct explanation of assertion
- 3) Assertion is correct but reason is not correct
- 4) Both are incorrect statement
- 93. The correct sequence of human journey during evolution is
 - 1) Ramapithecus \rightarrow Australopithecus \rightarrow Homo habilus \rightarrow Homo erectus \rightarrow Neanderthal man \rightarrow Cro-magnon man
 - 2) Australopithecus → Ramapithecus → Homo habilus → Cro-magnon man → Australopithecus
 - 3) Neanderthal man → Ramapithecus → Homo habilus → Cro-magnon man → Australopithecus
 - 4) Homo erectus → Homo habilus → Cro-magnon man → Neanderthal man → Ramapithecus → Australopithecus

94. Match column – I with column – II

201100000000000000000000000000000000000	Column – I		Column – II
P)	Nucleus	i)	Photosynthesis
Q)	Chloroplast	ii)	Chromosome
R)	Lysosome	iii)	Power house of cell
S)	Golgibody	iv)	Suicidal bag
T)	Mitochondria	v)	Packaging of material
1)	D ; О ;; В ;;; С ;; Т ;	o)	D :: O : D :- C T ::

- 1) $P-i,\ Q-ii\ ,\ R-iii,\ S-iv,\ T-v$ 2) $P-ii,\ Q-i,\ R-iv,\ S-v,\ T-iii$
- 3) P iii, Q ii, R iv, S i, T v 4) P v, Q iv, R iii, S i, T ii
- 95. Assertion: Acquired immunity is developed by an animals responce to a disease caused by infection of microbes

Reason: Animals own cells produce antibodies in responce to infection by active immunity

- 1) Both assertion and reason are correct statement, reason is correct explanation of assertion.
- 2) Both assertion and reason are correct statement, reason is not correct explanation of assertion.
- 3) Assertion is correct but reason is not correct.
- 4) Both are incorrect statement.
- 96. What is the causetive agent of AIDS disease?
 - 1) DNA adenovirus
- 2) Protein prions

3) RNA – retrovirus

- 4) Glycoprotein glyco virus
- 97. The basic fundemtnal characters present in chordata are given below.
 - a) Presence of a tubular, dorsal, hollow nerve cord
 - b) Presence of a solid, rod like notochord
 - c) Paired pharyangeal gills slits
 - d) Absence of post anal tail

Find out incorrect statement

1) 'a' and 'b'

2) 'b' and 'c'

3) 'c' and 'd'

- 4) only 'd'
- 98. Match column I with column II

27200	With Column 1 With Column 11			
	Column - I (Types of tissue)		Column – II (Example)	
P)	Squamous epithelium	i)	Stomach	
Q)	Columnar epithelium	ii)	PCT and DCT	
R)	Cuboidal epithelium	iii)	Blood capillaries	
<u>S)</u>	Ciliated epithelium	iv)	Trachea	
1)	P-i, Q-ii, R-iii, S-iv	2)	P - iii, $Q - i$, $R - ii$, $S - iv$	
3)	P-iv, Q-ii, R-iii, S-i	4)	P - ii, $Q - iii$, $R - i$, $S - iv$	

- 99. Find out the wrong matching statement
 - a) Energy giving food Carbohydrate and fat
 - b) Body bulding food Protein and fat
 - c) Protective food Vitamins and minerals
 - 1) 'a' and 'b'

2) 'b' and 'c'

3) 'a' and 'c'

4) 'b' only

100. The given symptoms related to which disease?

i) Stunted growth

ii) Oedema

iii) Thin and curved legs

iv) Scaly skin

v) Bulging eyes

Code:

1) Marasmus

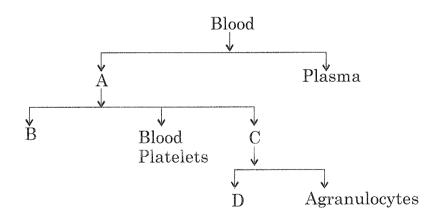
2) Goitre

3) Rickets

- 4) Kwashiorkor
- 101. The correct combination of male reproductive system is
 - 1) Tunica albugina, Epididymis, Prostate gland, Corpus leutium, Isthmus
 - 2) Ampulla, Birtholian gland, Fundus, Vas difference, Cowper's gland, Ejacultory duct
 - 3) Seminal vesicle, Epididymis, Cowper's gland, Vas efferentia, Testis
 - 4) Seminal vesicle, Ampulla, Isthmus, Labia majora, Clitoris
- 102. Major part of CO₂ transported in the form of
 - 1) Dissolved as gas in water of plasma
 - 2) Carbamino haemoglobin
 - 3) Bicarbonate ions dissolved in plasma
 - 4) Combin with proteins present in plasma
- 103. Find out the correct combination related to the part of brain.

	Forebrain	Midbrain	Hindbrain
1)	Optic lobe	Diencephalon	Medulla
2)	Cerebrum	Optic lobe	Cerebellum
3)	Medulla	Diencephalon	Cerebellum
4)	Cerebrum	Medulla	Optic lobe

104. Select the correct meaning of symbols A to D in given chart of blood components.



	A	В	C	D
1)	Granulocytes	WBC	RBC	Blood elements
2)	Blood elements	RBC	WBC	$\operatorname{Granulocytes}$
3)	RBC	WBC	Blood elements	$\operatorname{Granulocytes}$
4)	WBC	Granulocytes	RBC	Blood elements

105. Malpighian capsule is the association of

- 1) Bowman's capsule and proximal convoluted tubule
- 2) Proximal convoluted tubules and distal convoluted tubule
- 3) Bowman's capsule and loop of Henle's
- 4) Bowman's capsule and Glomerulus

106. The incorrect statement about endocrine gland is

- 1) These are duct less gland
- 2) These produces hormone, enzyme, mucus
- 3) It transport their secretion through blood
- 4) These abnormal secretion causes disease

107. The raising and care of silkworm for the production of raw silk is

1) Apiculture

2) Sericulture

3) Pisciculture

4) Poultry farming

108. The important characteristic of social health is changes one's own behavior according to changing

1) digital world

2) Environmental condition

3) Social condition

4) Technical condition

109. Dodo and passenger pigeons extinct due to

1) Air pollution

2) Human exploitation

3) Habitate loss

4) Water pollution

110. Match the column-I with column-II

	Column-I		Column-II
a)	Animal no longer in existence	i)	Wild life
b)	Organisms in danger of	ii)	Threatened
	becoming extinct	him da romana	
c)	Organisms facing a serious	iii)	Extinct
	but not immidate danger of	DECODO, P PARTIE DE LA COLONIA	
	extinction		
d)	Wild animal and plants that	iv)	Endangered
	lives in thier natural habitate		
1)	a - i, $b - ii$, $c - iii$, $d - iv$	2)	a - ii, $b - iii$, $c - i$, $d - iv$
3)	a - iii, $b - iv$, $c - ii$, $d - i$	4)	a - iv h - ii c - i d - iii



IMPORTANT DATES

Only For 10th CBSE, ICSE And Other Board Students (Except Maharashtra State Board Students)

SCREENING TEST - 2022 (OFFLINE MODE ONLY)	20 March 2022
Copy of candidate responses to be available on the website	23 Mar. 2022 (13:00 IST)
Online display of provisional answer key	23 Mar. 2022 (13:00 IST) (On Candidate Indivisual Login) / Website
Feedback and comments on provisional answer key from the candidates (Link given on website)	23 Mar. 2022 (13:00 IST) 24 Mar. 2022 (17:00 IST)
Online declaration of final answer key	25 Mar. 2022 (13:00 IST)
Result of SCREENING TEST 2022	25 Mar. 2022 (13:00 IST) (On Candidate Indivisual Login) / Website
Parent's Meet	27 Mar. 2022 (11:00 IST) (For Selected and Wait List Candidate)
Admissions : First List	28 Mar. 2022 (11:00 IST) 31 Mar. 2022 (17:00 IST)
Admissions : Second List	01 Apr. 2022 (11:00 IST) 04 Apr. 2022 (17:00 IST)