

SCSS-ST-23 PCB

Question Booklet Sr. No.

113591

	02/04/2023 Time : 2.30 Hrs.	Marks: Section- $A = 30 + $ Section- $B = 320 = 3$
porta	ant Instructions :	
1. ^{6[0]}	Immediately fill the particulars on this	page of the Test Booklet as well as Answershee
	with Black or Blue Ball Pen. Use of penc	il is strictly prohibited.
2.	Do not open this Test Booklet unitl you	are asked to do so.
3.	This Test Booklet contains of 110 question	ons.
4.	There are two sections in the question p	aper 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 Engl	ish.
7.	The Part-II contains 10 questions of Basi	ic Mathematics.
8.	The Part-III contains 10 questions of Me	ental Ability.
9.	In Section–A, each question carries ON	E 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 40 questions of Biolo	ogy.
12.	The Part-II contains 20 questions of Che	mistry.
13.	The Part-III contains 20 questions of Phy	ysics.
14.	In the Section–B , each question carries	4 marks. There is negative marking system. Fe
	each wrong answer 1 mark will be dedu	ucted from obtained marks.
15.	There are four choices for every question	n, out of which only one choice is most correct.
16.	Filling up more than one responses in ar	ny question will be treated as wrong response ar
	marks for this will be deducted according	ng to negative system.
17.	No candidates is allowed to carry any p	printed or written textual material, bits of paper
	cell phone and any other electronic dev	ices.
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 Invigilate
	on duty. However, candidates are allou	eed to take away this Question Paper with then
20.	Do not fold or make any stray marks or	n the Answer Sheet.

Seat No : In figures

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		- 582 -		

SCSS-ST-PCB-23 **Space For Rough Work** (P.T.O.) (2)April 02, 2023

Inst	ruction :			
01.	Find the word th	nat conveys the same me	eaning.	
	RIVAL		Ŭ	
	1) friend		2)	partner
	3) associate		4)	opponent ford of insecond the
Inst	ruction :			in the public the state of the
02.	Select the word MOISTURE	l that is opposite in me	eaning.	· Mariana (1997) Mariana (1997) Mariana (1997)
	1) dryness		2)	delicate
	3) dampnes	5	4)	defect most to be a set of the ball
	ruction:			
03.	Select from the sentence :	answer choices given	under	the sentence to form grammatically correct
	The drama had	many scenes which wer	e so hu	morous that it was hardly possible to keep
	a straight face.			
	1) hardly im	possible to keep	2)	hardly impossible keeping
	3) hardly im	possible for keeping	4)	no change
Inst	ruction :	nd value of ao + bc + c	then f	11. If $b + c = 13$ and $a^2 + b^2 + c^2 = 77$
04.	Select the pair Fuel : Pipes : :	of words to replace the ? : ?	e qustio	on mark.
	1) Blood : Ve	eins	2)	Food : Stomach
Inst	3) Wood : Tr ruction :	eestorq a ta d'ot tibl	- 4)	Cars : Expressway
05.	Choose the one	that can be substitute	d for t	he given phrase :
		does not believe in th		
	1) the int		2)	heretic
	3) atheist		4	fanatic
net	ruction :		Ŧ)	Tallatte
)6.		rrect meaning of the Ic	liomat	ic expression :
		vere in the blues when		heard that the examination would not be
	· ·	and depressed	2)	violent and angry
	3) wearing b	lue badges	4)	singing sad songs
nst	ruction :			
)7.	Choose the wor	rd that best completes	the ser	ntence.
		an telecom network is		econd largest in the world China
			•	. V ≠ X (2)
	1) beside		2)	preceeding

neti	ructio	n :			
)8.	Dete	rmine the word which	n fits well in all.		0.1 Find the word that c
<i>.</i>	i)	It differs in that			
	ii)	She lost all f			
	iii)	He went to the law s	chool out of	for his fathe	er's wishes.
	iv)	I his judgen	nent.		
	1)	respect	2)	reward	
	3)	account	4)	concern	
Inct	ructio		2) delicat		
09.	Idor	tify the part that cont	ains an error.		
09.	Eco	nomics are/now a day	s included/as a sul	oject/in most pr	ofessional colleges.
	1)	infames and in some	anse orit robrit 2) ¹⁰	2 assister 197	
	3)	3	4)	4	
10	D) Par	n accused Mohan	stealing his wat	tch.	
10.		with	2)	for	
	1)	of	4)	about	
	3)	unimed siniscoumi	wilmari 15	(1239) ()	and the state of the second
			Part-II – Basic M		
11.	Ifa	$+ b + c = 15$ and $a^2 + b$	$c^2 + c^2 = 77$ then find	l value of ab + b	oc + ca is
11.	1)	32	store contaip 2)	28 m of eluc	ow to star the pair of we
			4)	70	
	3)	74	A Rosent of 10		7) · Blood Verns
12.	'Δ'	purchased an article f	or Rs. 96 and sold	it to 'B' at a pro	of it of $8\frac{1}{3}$ %. If 'B' sold it at
12.					5 contentioni
	los	s of 5 % , what is B's se	elling price	con be substitu	
			2)	98.80 Rs	
		104 Rs	The construction 4)	no Trieve n	
	1) 3)	104 Rs	4)	92.50 Rs	
12	1) 3)	104 Rs	4)	92.50 Rs	
13.	1) 3) In	104 Rs 98 Rs what time will the inte	4) erest on Rs. 3600 at	92.50 Rs	be equal to the interest on I
13.	1) 3) In	104 Rs 98 Rs what time will the inte	4) erest on Rs. 3600 at	92.50 Rs the rate of 10 %	be equal to the interest on I
	1) 3) In 18	104 Rs 98 Rs what time will the inte 00 at the rate of $12\frac{1}{2}\%$	4) erest on Rs. 3600 at 5 in 4 years ?	92.50 Rs the rate of 10 %	be equal to the interest on I
	1) 3) In 18	104 Rs 98 Rs what time will the inte 00 at the rate of $12\frac{1}{2}\%$	4) erest on Rs. 3600 at 5 in 4 years ?	92.50 Rs the rate of 10 %	be equal to the interest on I
	1) 3) In 18	104 Rs 98 Rs what time will the inter 00 at the rate of $12\frac{1}{2}\%$ $1\frac{1}{2}$ years	4) erest on Rs. 3600 at 6 in 4 years ? 2)	92.50 Rs the rate of 10 % $3\frac{1}{2}$ years	be equal to the interest on I
	1) 3) In 18	104 Rs 98 Rs what time will the inter 00 at the rate of $12\frac{1}{2}\%$ $1\frac{1}{2}$ years	4) erest on Rs. 3600 at 6 in 4 years ? 2)	92.50 Rs the rate of 10 % $3\frac{1}{2}$ years	be equal to the interest on I
	1) 3) In 18	104 Rs 98 Rs what time will the inter 00 at the rate of $12\frac{1}{2}\%$ $1\frac{1}{2}$ years	4) erest on Rs. 3600 at 6 in 4 years ? 2)	92.50 Rs the rate of 10 % $3\frac{1}{2}$ years	be equal to the interest on I not material
	1) 3) In 18 1) 3)	104 Rs 98 Rs what time will the inter 00 at the rate of $12\frac{1}{2}$ % $1\frac{1}{2}$ years $4\frac{1}{2}$ years	4) erest on Rs. 3600 at 6 in 4 years ? 2) 4)	92.50 Rs the rate of 10 % $3\frac{1}{2}$ years $2\frac{1}{2}$ years	be equal to the interest on I notice that we have a set to be a se
	1) 3) In 18 1) 3)	104 Rs 98 Rs what time will the inter 00 at the rate of $12\frac{1}{2}$ % $1\frac{1}{2}$ years $4\frac{1}{2}$ years	4) erest on Rs. 3600 at 6 in 4 years ? 2) 4)	92.50 Rs the rate of 10 % $3\frac{1}{2}$ years $2\frac{1}{2}$ years	be equal to the interest on I for the interest on I for the basis of the basis for the basis of the basis of the basis for the basis of
14	1) 3) In 18 1) 3) . If	104 Rs 98 Rs what time will the interval 00 at the rate of $12\frac{1}{2}$ % $1\frac{1}{2}$ years $4\frac{1}{2}$ years $\log 2 + \frac{1}{2}\log x + \frac{1}{2}\log y$	 4) berest on Rs. 3600 at 6 in 4 years ? 2) 4) y = log(x + y) then 	92.50 Rs the rate of 10 % $3\frac{1}{2}$ years $2\frac{1}{2}$ years	be equal to the interest on I motion and two bars in answer and two bars in answer and two bars in a second two ba
	1) 3) In 18 1) 3) . If	104 Rs 98 Rs what time will the interval 00 at the rate of $12\frac{1}{2}$ % $1\frac{1}{2}$ years $4\frac{1}{2}$ years $\log 2 + \frac{1}{2}\log x + \frac{1}{2}\log y$	 4) erest on Rs. 3600 at 6 in 4 years ? 2) 4) y = log(x+y) then 2) 	92.50 Rs the rate of 10 % $3\frac{1}{2}$ years $2\frac{1}{2}$ years x = 2y	be equal to the interest on I
14	1) 3) In 18 1) 3) . If	104 Rs 98 Rs what time will the interval 00 at the rate of $12\frac{1}{2}$ % $1\frac{1}{2}$ years $4\frac{1}{2}$ years $\log 2 + \frac{1}{2}\log x + \frac{1}{2}\log y$ x + y = 1	 4) erest on Rs. 3600 at 6 in 4 years ? 2) 4) 7 = log(x + y) then 2) 4) 	92.50 Rs the rate of 10 % $3\frac{1}{2}$ years $2\frac{1}{2}$ years x = 2y	be equal to the interest on I in the interest on I in the interest of I in the intere
14	1) 3) In 18 1) 3) . If 1)	104 Rs 98 Rs what time will the interval 00 at the rate of $12\frac{1}{2}$ % $1\frac{1}{2}$ years $4\frac{1}{2}$ years $\log 2 + \frac{1}{2}\log x + \frac{1}{2}\log y$ x + y = 1	 4) erest on Rs. 3600 at 6 in 4 years ? 2) 4) y = log(x+y) then 2) 	92.50 Rs the rate of 10 % $3\frac{1}{2}$ years $2\frac{1}{2}$ years x = 2y	be equal to the interest on F normalized in the community of the community of the basis of the

1) 3) A ca	$-\frac{1}{x} = 7$ then value of $x^3 - 364$ 333	x ³ 15 2) 2) 4)	243	Find the missing to 4, 6, 12, 14, 28, 30, ,	
3) A ca	333			4, 6, 12, 14, 28, 30,	
A ca		08 (* 4)	242		
	and the neighbor distribution		343	1) 32	
	r completes a journey of a	$315 \mathrm{km}\mathrm{in}4\frac{3}{4}\mathrm{h}$	nours. The first o	one-third of the journ	ney was
nort	ormed at 60 km/hr. Calcu	30 - C +		1) Wicked	
State State	401			the second of the	
					- 23.
The	value of $2\sin^2\frac{3\pi}{4} + 2\cos^2\theta$	$2\frac{\pi}{4}+2\sec^2\frac{\pi}{3}$ j	is given by	In a certain code lan	.85
1)	1	2)	5		
3)	10	4)	8		
Let	D (3, 2), E(–3, 1) and F(4, –3) be the mid-po	oints of the sides	BC, CA and AB resp	ectively
		ADC is		n Ann e ru Rummur	-C4
				SUS SUMON ISUBDI	
· ·	(1 0)	4			
	1112.1				t top of
					t top of
- 1		CC /k		3) * 19,24	
con en ente		about of bina and	fill helmm heiden	One day Kavi left hor	
Finc	น หน่ายกระการการกำหารสุกษี เพื่อ		14 harmit his m	shi bara basiron -	
		,	ne straight ?	cycle to reach his her	
	A = 20 cm B			1) (10 km	
	10 cm			3) 20 km	
	/ $/$ $/$ $/$ $/$ $/$ $/$ $/$		ands for - Main	If L stands for $+$ M A	
	$E \left\langle F \right\rangle$	C a c			
	14 cm	IC.			
antan an tara a	D	NET INTO A TO D	n ganaan ara marana ay aharan a		
1)	325 cm ²	2)	640 cm ²		
	 1) 3) Let I of ∆ 1) 3) Fince 1) 3) Fince 	3) 30 km/hr The value of $2\sin^2 \frac{3\pi}{4} + 2\cos^2 \frac{3\pi}{4} + 2\cos$	3) 30 km/hr 4) The value of $2\sin^2 \frac{3\pi}{4} + 2\cos^2 \frac{\pi}{4} + 2\sec^2 \frac{\pi}{3}$ if 1) 1 2) 3) 10 4) Let D (3, 2), E(-3, 1) and F(4, -3) be the mid-point of Δ ABC. Then vertex A of Δ ABC is 1) (10, -6) 2) 3) (-4, 2) 4) Find area of the metal sheet required to contribute the area of the metal sheet required to contribute the base 1.4 m 1) 42.26 m ² 2) 3) 44.14 m ² 4) Find the area of adjoining figure ABCDE. Go AF = 10 cm ; AB = 20 cm , EC = 45 cm AF = 10 cm ; AB = 20 cm , EC = 45 cm 1) 325 cm ² 2)	3) 30 km/hr He value of $2\sin^2 \frac{3\pi}{4} + 2\cos^2 \frac{\pi}{4} + 2\sec^2 \frac{\pi}{3}$ is given by 1) 1 2) 5 3) 10 4) 8 Let D (3, 2), E(-3, 1) and F(4, -3) be the mid-points of the sides of \triangle ABC. Then vertex A of \triangle ABC is 1) (10, -6) 2) (-2, -4) 3) (-4, 2) 4) (5, -3) Find area of the metal sheet required to construct a cylind height 3.5 metre and radius of the base 1.4 metre 1) 42.26 m ² 2) 42.56 m ² 3) 44.14 m ² 4) 36.96 m ² Find the area of adjoining figure ABCDE. Given AB11EC, A AF = 10 cm; AB = 20 cm, EC = 45 cm and DG = 14 c AF = 10 cm; AB = 20 cm, EC = 45 cm and DG = 14 c AF = 10 cm; AB = 20 cm, EC = 45 cm and DG = 14 c AF = 10 cm = 45 cm G C 1) 325 cm ² 2) 640 cm ²	3) 30 km/hr The value of $2\sin^2 \frac{3\pi}{4} + 2\cos^2 \frac{\pi}{4} + 2\sec^2 \frac{\pi}{3}$ is given by 1) 1 2) 5 3) 10 4) 8 Let D (3, 2), E(-3, 1) and F(4, -3) be the mid-points of the sides BC, CA and AB respect of \triangle ABC. Then vertex A of \triangle ABC is 1) (10, -6) 2) (-2, -4) 3) (-4, 2) 4) (5, -3) Find area of the metal sheet required to construct a cylinderical drum without height 3.5 metre and radius of the base 1.4 metre 1) 42.26 m ² 2) 42.56 m ² 3) 44.14 m ² 4) 36.96 m ² Find the area of adjoining figure ABCDE. Given AB11EC, AF \perp EC, DG \perp EC AF = 10 cm; AB = 20 cm, EC = 45 cm and DG = 14 cm 45 cm C 1) 325 cm ² 2) 640 cm ²

(5)

	Part-III -	Mental	l Ability
	Find the missing term in each of the fo		
21.	Find the missing term meach of the r	(26¢
	4, 6, 12, 14, 28, 30,?	2)	60 (8
	1) 32	4)	64
	3) 62		16. A car completes a journey of 3134
22.	Giant : Dwarf : : Genius : ?	2)	Captle
	1) Wicked		Tiny
	3) Idiot Choose the word which is least like the		ords in the group.
23.		2)	Zinc
	1) Copper	4)	Aluminium
~ 1	3) brass	E is writte	en as QTTUIDBSD. How would STATISTIC be
24.	written in that code ?		
		2)	RSBUITUHB
	-/	4)	TUBUITUMB
21	3) RSBUIRSJD	Shaloo s	aid, "Her son's father is the son-in-law of my
25.	mother." How is shaloo related to the l	adv?	A DEAL AND A
		2)	Sister
	1) Aunt	4)	Cousin
	3) Mother	ore from	the given ones that will complete the series.
26.	Choose the correct alternative number 3, 5, 35, 10, 12, 35 , ?	C13 II 0II	height 3.5 metre and radius of the b
	and an all the second	2)	17,19
	1) 19,35	4)	22,35
	3) 19,24	cm south	wards, turned right and cycled 5 km and turned
27.	One day, Ravi left nome and cycled 101	and cyc	led 10 km. How many kilometers will he have to
	right and cycled 10 km and turned left	anucyc	Ab = (0 cm), $AB = 20 cm$, BL
	cycle to reach his home straight ?	2)	15 km i m595 A
	1) 10 km	2)	15 km
	3) 20 km	4)	25 km
28	If L stands for +, M stands for –, N sta	nds for ×	<pre><, P stands for \div, then 14 N 10 L 42 P 2 M 8 = ?</pre>
	1) 153	2)	216
	3) 248	4)	251
	Spa	ce for Rot	ugh Work

29. Five children take part in a tournament. Each one has to play every other one. How many games must they play ?

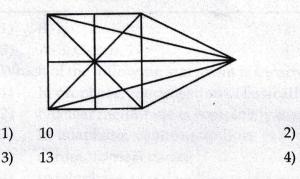
10

30

12

17

- 1) 8 2)
- 3) 24 4)
- 30. What is the number of straight lines in the following figure ?



Space for Rough Work

April 02, 2023

Match the column-1 with column-11 and effect the correct option.

		Section	- B : (Part-I	– Biology)
31.	Ident	ify A, B, C and D from the gi	iven diagraı	n?
		ni mur Consent or on or	1 11 Martin Ang	annes must they play?
		je mestos term in tern (s. ³⁵		St. C
		A		
				 What is the number of straight line.
			/00/01/967 /00/	Still HEREIR IN LEADING SID Service
				united SPA
		T.T ← C		ETV D
		in Jilmanski u s		
		pining		
		tu III		
	1)	A–Annulus, B–Pileus, C–Cu	up, D-Stipe	u Para anti-
	2)	A–Pileus, B–Gills, C–Annul		lial threads
	Repair of the			
		A-GIIIS, D-Flieus, C-Alulu	us, D-Supe	
	3) 4)	A–Gills, B–Pileus, C–Annul A–Stipe, B–Mycelial thread		
32.	4)	A-Stipe, B-Mycelial thread	l, C–Annulu	s, D–Cup
32.	4)	A–Stipe, B–Mycelial thread w many of the following men	l, C–Annulu nbers belonş	s, D–Cup gs to kingdom fungi ?
32.	4)	A–Stipe, B–Mycelial thread w many of the following men	l, C–Annulu nbers belonş	s, D–Cup
32.	4) How	A–Stipe, B–Mycelial thread w many of the following men	l, C–Annulu nbers belonş	s, D–Cup gs to kingdom fungi ?
32.	4) How 1)	A–Stipe, B–Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4	l, C–Annulu nbers belonş	s, D–Cup gs to kingdom fungi ? oeba, Euglena, Nostoc, Anabaena, Rhizopus
	4) How 1) 3)	A–Stipe, B–Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5	ł, C–Annulu nbers beloną <i>noecium, Amo</i> 2) 4)	s, D–Cup gs to kingdom fungi ? oeba, Euglena, Nostoc, Anabaena, Rhizopus
32. 33.	 4) How 1) 3) Asso 	A–Stipe, B–Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut	d, C–Annulu nbers belong <i>noecium, Amo</i> 2) 4) cotrophic	s, D–Cup gs to kingdom fungi ? oeba, Euglena, Nostoc, Anabaena, Rhizopus 3 2
	 4) How 1) 3) Asso Reas 	A–Stipe, B–Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr	d, C–Annulu nbers belong <i>toecium, Amo</i> 2) 4) totrophic of fungi and rue and rease	s, D–Cup gs to kingdom fungi ? <i>oeba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion
	 4) How 1) 3) Asso Reas 1) 	A–Stipe, B–Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr	d, C–Annulu nbers belong <i>toecium, Amo</i> 2) 4) totrophic of fungi and rue and rease	s, D–Cup gs to kingdom fungi ? <i>oeba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion
	 4) How 1) 3) Asso Reas 	A–Stipe, B–Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr	d, C–Annulu nbers belong <i>toecium, Amo</i> 2) 4) cotrophic of fungi and rue and reaso	s, D–Cup gs to kingdom fungi ? oeba, Euglena, Nostoc, Anabaena, Rhizopus 3 2 cyanobacteria
	 4) How 1) 3) Asso Reas 1) 2) 	A–Stipe, B–Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr Assertion and reason are tr	d, C–Annulu nbers belong <i>noecium, Amo</i> 2) 4) cotrophic of fungi and rue and reaso rue but reaso n is false	s, D–Cup gs to kingdom fungi ? <i>oeba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion
	 4) How 1) 3) Asso Reas 1) 2) 3) 4) 	A–Stipe, B–Mycelial thread many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr Assertion and reason are tr Assertion is true but reasor	d, C–Annulu nbers belong <i>noecium, Amo</i> 2) 4) cotrophic of fungi and rue and reaso rue but reaso n is false are false	s, D–Cup gs to kingdom fungi ? <i>weba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion on is not correct explanation of assertion
33.	 4) How 1) 3) Asso Reas 1) 2) 3) 4) 	A–Stipe, B–Mycelial thread many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr Assertion and reason are tr Assertion is true but reasor Both assertion and reason are are	d, C–Annulu nbers belong <i>noecium, Amo</i> 2) 4) cotrophic of fungi and rue and reaso rue but reaso n is false are false	s, D–Cup gs to kingdom fungi ? <i>weba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion on is not correct explanation of assertion
33.	 4) How 1) 3) Asso Reas 1) 2) 3) 4) Mat 	A-Stipe, B-Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr Assertion and reason are tr Assertion is true but reasor Both assertion and reason a cch the column-I with column Column-I	d, C–Annulu nbers belong <i>noecium, Amo</i> 2) 4) cotrophic of fungi and rue and reaso rue but reaso n is false are false	s, D–Cup gs to kingdom fungi ? <i>Deba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion on is not correct explanation of assertion
33.	 4) How 1) 3) Asso Reas 1) 2) 3) 4) Mat A) 	A-Stipe, B-Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr Assertion and reason are tr Assertion is true but reasor Both assertion and reason a ch the column-I with column Column-I Regeneration	d, C–Annulu nbers belong <i>noecium, Amo</i> 2) 4) cotrophic of fungi and rue and reaso rue but reaso n is false are false n-II and sele	s, D–Cup gs to kingdom fungi ? <i>oeba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion on is not correct explanation of assertion on is not correct explanation of assertion ect the correct option. Column-II
33.	 4) How 1) 3) Asso Reas 1) 2) 3) 4) Mat A) B) 	A-Stipe, B-Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr Assertion and reason are tr Assertion is true but reasor Both assertion and reason a ch the column-I with column Column-I Regeneration Budding	d, C–Annulu nbers belong <i>toecium, Amo</i> 2) 4) totrophic of fungi and rue and reaso rue but reaso n is false are false n-II and sele i)	s, D–Cup gs to kingdom fungi ? <i>oeba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion on is not correct explanation of assertion ect the correct option. Column-II <i>Spirogyra</i>
33.	 4) How 1) 3) Asso Reas 1) 2) 3) 4) Mat A) 	A-Stipe, B-Mycelial thread w many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr Assertion and reason are tr Assertion is true but reasor Both assertion and reason a ch the column-I with column Column-I Regeneration	d, C–Annulu nbers belong <i>noecium, Amo</i> 2) 4) cotrophic of fungi and rue and reaso rue but reaso n is false are false n-II and sele i) i) ii)	s, D–Cup gs to kingdom fungi ? <i>oeba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion on is not correct explanation of assertion on is not correct explanation of assertion ect the correct option. Column-II <i>Spirogyra</i> <i>Plasmodium</i>
33.	 4) How 1) 3) Asso Reas 1) 2) 3) 4) Mat A) B) C) 	A-Stipe, B-Mycelial thread many of the following men <i>Penicillium, Agaricus, Param</i> 4 5 ertion : Algae are mainly aut son : Alga is the association of Assertion and reason are tr Assertion and reason are tr Assertion is true but reasor Both assertion and reason a ch the column-I with column Column-I Regeneration Budding Fragmentation	d, C-Annulu nbers belong <i>noecium, Amo</i> 2) 4) cotrophic of fungi and rue and reaso rue but reaso n is false are false n-II and sele i) ii) iii)	s, D–Cup gs to kingdom fungi ? <i>oeba, Euglena, Nostoc, Anabaena, Rhizopus</i> 3 2 cyanobacteria on is correct explanation of assertion on is not correct explanation of assertion on is not correct explanation of assertion ect the correct option. Column-II <i>Spirogyra</i> <i>Plasmodium</i> <i>Hydra</i>

(8)

(P.T.O.) (20.2020

		Column-I		Column-II				
	A)	G ₂ phase	1.	Gap 2 phase				
	B)	Cytokinesis	2.	Nuclear division 8.0 1.0 (0				
	C)	Karyokinesis	3.	Cytoplasmic division				
	1)	B–1, C–2, A–3	2)	A–1, C–2, B–3				
	3)	A–3, C–2, B–1	4)	A–1, C–3, B–2				
6.	Whi	ch of the following statement						
	1)	In prophase, condensation of	basically	thin thread like chromosomes start				
	2)	Nuclear membrane is compl						
	3)	In anaphase, centromere do chromosome separate	es not sp	lit and thereby sister chromatids of each				
	4)	In telophase, two daughter n	uclei are f	formed in a cell				
7.	Sele	ect odd one out with respect to	compone	nt of phloem :				
	1)	Companion cells	2)	Vessels				
	3)	Sieve tube elements	4)	Phloem fibres				
8.	Which of the following plant tissue helps aquatic plant leaves and stem to float?							
	1)	Companion cells	2)	Chlorenchyma				
	3)	Aerenchyma	4)	Xylem parenchyma				
9.	Whi	ich of the following statements	s are corre	ect about flowers ?				
	i)	Flowers are always bisexual		0) · · · · · · · · · · · · · · · · · · ·				
	ii)	Flower is the main sexually	reproducti	ive structure in angiosperms				
	iii)	Ovary after fertilisation deve	elopes into	o fruit				
	iv)	Flowers may be unisexual						
	Opt	tions :						
	1)	i and ii	2)	i, ii and iii				
	3)	ii, iii and iv	4)	only iii and iv				
0.		ich of the following is/are inco	rrect state	ement/s?				
	A)		s the fusi	on of gametes from two opposite sexes of				
	B)			the fusion of gametes from two different				
	C)	Embryogenesis is post fertili	sation eve	ent (1				
	D)	Gamete transfer is pre-fertili						
	1)	A and D	(bezlez)	B and C				
	3)	only B	4)	only A				
1.	In N	Aendel classic experiments on		s, he did not use :				
	1)	Flower position	2)	Seed colour				
	3)	Seed shape	4)	Pod length				

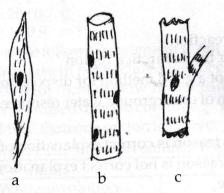
II and select the correct option

CALL AND A		non	00
and	CT	DI B	15
51 55-	-11-	r CD-	20
SCSS-	01 -		

A man who is affected with sickle cell anaemia marries a woman who is carrier of this disorder. What proportion among the following of this couple's progeny will be affected 42. and what proportion will be carrier ? 0.5:0.5 2) 0.25:0.751) 0.75:0.25 Which of the following statement is **not incorrect** with respect to benefits of biotechnology? 4) 43. Increase in per hectare yield of crop 1) Development of slow fruit setting varieties 2) Maximised disease control expenses Which of the following statement is inc 3) More than one option is correct Match the column-I with column-II and select the correct option. Column-II 44. Column-I DDT a) White revolution Cultivation of Honey bees 1) b) **Bio-magnification** 2) NKM-16 c) Apiculture 3) Dr. Kurien d) Pisciculture 4) 1-d, 2-a, 3-b, 4-c 2) 1-d, 2-b, 3-a, 4-c 1-d, 2-a, 3-c, 4-b 1) 4) 1-c, 2-b, 3-d, 4-a Assertion : Lactobacilli are anaerobic bacteria 3) **Reason :** They can produce energy without the use of oxygen 45. Assertion and reason are true and reason is correct explanation of assertion Assertion and reason are true but reason is not correct explanation of assertion 1) 2) Assertion is true but reason is false 3) Both assertion and reason are false Read the following statements and select the correct option with respect to Photosynthesis O_2 released during photosynthesis comes from CO_2 46. A) O_2 released during photosynthesis comes from H_2O During photosynthesis CO₂ is reduced to carbohydrates B) During photosynthesis carbohydrates are oxidised to $CO_2 + H_2O$ C) D) **Options**: B and C only 2) A and B only A and C only 1) 4) Which among the following in a food chain, will have the maximum concentration of harmful chemicals in its body due to contamination of pesticides in the soil? 47. Goat 2) Grass 1) Vulture 4) Which of the following step is not involved in the carbon cycle ? 48. Respiration 2) Photosynthesis Burning of fossil fuels 1) 4) Transpiration 3)

49.	Wh	ich of the following statement is ir	ncorre	ect about ozone depletion ?
	1)	CFCs release 'Cl ⁻ 'atom causes d	legrac	lation of O_3
	2)	Cl ⁻ atoms act as catalyst		
50.	Rea		er the	
	1)	Assertion and reason are true and	d reas	son is correct explanation of assertion
	2)			on is not correct explanation of assertion
	3)	Assertion is true but reason is fal		A A A A A A A A A A A A A A A A A A A
	4)	Both assertion and reason are fall	se	
51.	Fine	d odd term out on the basis of class	sificat	tion from each group and select the correct
		ion?		56. Which of the following part is chai
	a)	Spirogyra, Mucor, Agaricus, Penicil		
	b)	Riccia, Marchantia, Moss, Cycas		
	c)	Frogs, Tortoise, Snakes, Crocodil	e	
	d)	Cat, Rat, Rabbit, Parrot		
	1)	Spirogyra, Cycas, Frogs, Parrot		Mucor, Riccia, Tortoise, Rabbit
	3)	Spirogyra, Cycas, Tortoise, Parrot		Mucor, Cycas, Frogs, Parrot
52.	Eve			com others with respect to appearance and
	mod	de of life and maintains its 'own ide	entity	'. This phenomenon is known as
	1)		2)	Hierarchy
	3)	Environmental conservation	4)	Biodiversity
53.	How	w many of the following statement		
	i)	Oxidation of food takes place in r		
	ii)	All plastids have pigments		
	iii)	Cellulose is a protein		
	iv)	Blue green algae are prokaryotes		3) Assertion is trusted and a section of the sectio
	v)	The cell wall is freely permeable		
	1)	One	2)	60. Choose the concret match, owT
	3)	Three	4)	Four
54.	Mat	ch the following and select correct	optio	n. – anomen andstruktur (S
	1	Column-I	13-4	Column-II
	A)	Zacharias Jansen	i)	Named protoplasm to the fluid in cell
	B)	Robert Hooke	ii)	First observed living cell
	C)	Leeuwenhoek	iii)	Discovered dead cell
	D)	Johannes Purkinje	iv)	First invented microscope
	1)	A–iv, B–i, C–ii, D–iii	2)	A–iii, B–i, C–iv, D–ii
	3)	A–iv, B–iii, C–ii, D–ii	2) 4)	A–ii, B–iii, C–iv, D–i
	<i>S</i>)		±)	Λ-11, D-111, C-1V, D-1

Identify the following type of muscle cell given in diagram and select option denoting 55. striated muscle, smooth muscle and cardiac muscle, respectively



c, b, a 1)

- b, a, c 2) 4) b, c, d
- 3) a, b, c Which of the following pair is characterised by swollen lips, thick pigmented skin of 56. hands & legs and irritability ?
 - Thiamine Beri Beri 1)
- Protein Kwashiorkar
- 4) Iodine Goitre Nicotinamide – Pellagra 3)
- Which of the following is respiratory disorder caused due to smoking?
- 1) Asthama

57.

Bronchitis 2)

Emphysema

- Fibrosis 4)
- 3) 58. Which of the following is correctly matched?
 - 2) Inflammation of bronchi-Asthma Blood cancer – Hemophilia
 - 1) 4) Osteoporosis – Arthritis 3)
 - Decrease in WBC count Anaemia
- Assertion : Excretion is the process of removal of metabolic waste materials out of the 59. body

Reason : Excretion and egestion are one and same processess.

- Assertion and reason are true and reason is correct explanation of assertion 1)
- Assertion and reason are true but reason is not correct explanation of assertion 2)
- Assertion is true but reason is false 3)
- Both assertion and reason are false 4)
- Choose the correct match. 60.
 - Adrenaline Stimulates adrenal gland 1)
 - Luteinizing hormone Controls menstrual cycle and ovulation 2)
 - Glucagon Controls growth of gonads 3)
 - Growth hormone Regulates water level in the body 4)
- Identical twins develop from 61.
 - One egg, fertilised by one sperm 1)
 - One egg, fertilised by two separate sperm cells 2)
 - Two eggs, both fertilised by the same sperm cell 3)
 - Two eggs, each fertilised by a separated sperm cell 4)

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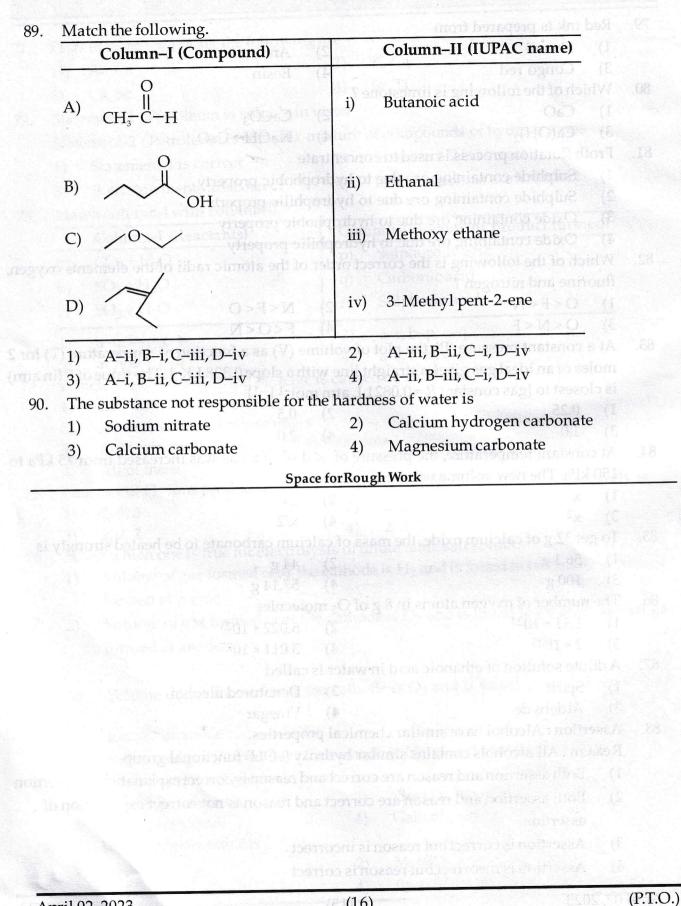
Choose the correct sequence of movement of sperms in male reproductive system 62. Vas efferens - rete testes - vas deferens - epididy mis - uninogenital duct-ejaculatory 1) duct Rete testes -vas efferens-epididymis-vas deferens-ele culatory duct-uninogenital 2) duct Vas deferens – rete testes – vas efferens – epididymis – uningenital duct – ejaculatory 3) duct Rete testes - vas deferens - vas efferens - ejaculatory duct - en a como 4) duct – urinogenital duct The given symptoms related to sexually transmitted disease 63. Chancre on genitals, Alopecia, Rash, Inflammation of Joints, Ferrer 2) Gonorrhoea Syphilis 1) 4) Both 1 and 2 3) AIDS Which of the following technique from animal husbandry is helpful as pollogical 64. to increase the crop yield? 2) Sericulture Poultry 1) Apiculture 4) Lac culture 3) Note the relationship between the first two words and suggest suitable words are 65. fourth place HIV : AIDS : : HB : a. Typhoid : Salmonella typhi : : Tuberculosis : b. Pulse polio : Poliomyletis : : DOTs : C. TB : Communicable : : Cancer : d. TB, M. Tuberculi, Hepatitis, Noncommunicable 1) Hepatitis, M. Tuberculi, TB, Noncommunicable 2) Hepatitis, TB, M. Tuberculi, Noncommunicable 3) Noncommunicable, TB, Hepatitis, M. Tuberculi 4) Alcohol consumption mainly affects 66. Excretory system 2) Respiratory system 1) Nervous system 4) 3) Digestive system Development of which bones in apes started to stand in erect posture and gave rise to 67. evolution of human-like animal? Sacral bones 2) 1) Lumbar bones 4) Cervical bones 3) Thoracic bones **Evolution means** 68. 2) Translocation 1) Mutation Gradual development 4) Transcription 3) Which of the following is world's largest organisation engaged in environmental 69. activities? World wildlife fund 2) Chipko centre 1) Gandhi peace foundation 4) Green peace 3) Green pages of 'Red list' book of IUCN contain the names of 70. **Endangered** species 1)Previously endangered but presently safe species 2) Vulnerable species 3) Indeterminate species 4) (P.T.O.) (13)April 02, 2023

Part-II	I – Chemistry
	62. Choose the correct contract
 Pairs of isotones among the following 1) Ar, Ca 3) Ca, Sc 72. Statement-1 : Petroleum is soluble in Statement-2 : Petroleum is complex r 	g are 2) K, Ca 4) Sc, Ti
 Statement-1 is correct Both statements are correct Match column-I with column-II. 	4) Both statements are incorrect
73. Match column-1 whitecolumn- Column-I (Reactants)	Column-II (Name of product formed)
a) $CO_2 + H_2O$ b) $SO_2 + H_2O$ c) $SO_3 + H_2O$	 p) Sulphurous acid q) Carbonic acid r) Sulphuric acid
 4) All of these 75. Number of H⁺ ions produced in wa 1) 2, 3, 3 3) 2, 2, 2 76. Select which one is true for electron 1) Volume of gas formed near the formed at anode 2) Volume of gas formed near formed at anode 	Is monuments vater by H_2SO_4 , H_3PO_4 and H_3PO_3 respectively is 2) 2, 2, 3 4) 2, 3, 2 olysis of dilute table salt solution ? the cathode is H_2 and is found to be double as that the cathode is O_2 and is found to be same as that
Gladual development	r the cathode is O_2 and is found to be $\frac{1}{4}$ th as that
and the set a property of 1001C	r the cathode is Na(g) and at anode is Cl ₂ (g) bond ?
at i falastron	 Electron transfer Gain of electron
3) Loss of electron	
- Clashion	 Metallic Partially ionic and partially covalent

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79.	Red	l ink is prepared from		89, Match the following -
	1)	Phenol DATUD (It-namulo)	2)	Aniline og mod) 1-n mulod
	3)	Congo red	4)	Eosin
80.	Wh	ich of the following is limestone?		
	1)	CaO	2)	CaCO ₃ H-D-HD
	3)	Ca(OH) ₂	4)	NaOH + CaO
81.	Fro	th flotation process is used to conce	entrat	e
	1)	Sulphide containing ore due to h	ydrop	phobic property
	2)	Sulphide containing ore due to h	ydrop	philic property
	3)	Oxide containing ore due to hydr	opho	bic property
	4)	Oxide containing ore due to hydr	ophil	lic property
82.	Wh	ich of the following is the correct c	order	of the atomic radii of the elements oxygen
	fluc	orine and nitrogen ?		
	1)	O < F < N (vi	2)	N < F < O
	3)	O < N < F	4)	F < O < N
83.	Ata	a constant pressure 'P', the plot of v	volum	ne (V) as a function of temperature (T) for 2
	mo	les of an ideal gas gives a straight lii	ne wi	th a slope 0.328 LK ⁻¹ . The value of P (in atm
	is c	losest to [gas constant R = 0.0821 L a	atm n	$nol^{-1}k^{-1}$]
	1)	0.25	2)	0.5
	3)	1.0	4)	2.0
84.	Ato	constant temperature, the pressure	of 'x'	dm ³ of a gas was increased from 75 kPa to
	150	kPa. The new volume will be	Not a	Span
	1)	x	2)	2x
	3)	\mathbf{x}^2 . The set of	4)	x/2
85.	To	get 32 g of calcium oxide, the mass o	of cal	cium carbonate to be heated strongly is
	1)	56.1 g	2)	44 g
	3)	100 g	4)	57.14 g
86.	The	e number of oxygen atoms in 8 g of	O ₂ m	olecules
	1)	1.51×10^{23}	2)	6.022×10^{23}
	3)	2×10^{23}	4)	3.011×10^{23}
87.	Ad	ilute solution of ethanoic acid in wa	ater is	scalled
	1)	Spirit	2)	Denatured alcohol
	3)	Âldehyde	4)	Vinegar
88.	Ass	sertion : Alcohol have similar chemi	ical p	roperties.
	Rea	ason : All alcohols contains similar	hydro	oxy (–OH) functional group.
	1)	Both assertion and reason are corr	recta	nd reason is correct explanation of assertior
	2)			and reason is not correct explanation of
	_,	assertion		1 1 1 1 6 0 m.
			n whi	
	3)	Assertion is correct but reason is	ncor	rect
	3) 4)	Assertion is correct but reason is Assertion is incorrect but reason i		

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(16)

18 - S. 20 - S. 19		(Part –III – P	'hysics)				
91.	91. Volume of an object is 20 cm^3 and the mass is 50g. Density of water is						
		r or sink in water ?	ne work done, if the mass				
	1) Sink	(\$ 2)	Float				
	3) Half in air and		Cannot predict				
92.			below water surface. What is the personal				
		ensity of water to be 100	0				
	1) 600 kg/m^3	2)	400 kg/m ³				
02	3) 0.4 kg/m^3		0.6 kg/m ³				
93.			be applied across an electric bull- is the				
			this bulb is to be used with a 200				
	get fused is	K that must be kept in s	series with the bulb so that the bulb does				
	1) 30 Ω	2)	ATT CA				
	$3) 10 \Omega$	al somires to trend). 4)	$\Omega^{\frac{1}{2}}$				
94.			20Ω the circuits below each showing a common showing				
74.	combination.		The circuits below each showing - 1 - Fere				
			Assertion Disc Reason - In aich the column Croap-A				
		ntest and which is dimm	est ? Temperature of a health?				
	Brightest	Dimmest					
	1) Q	P State	b) Boiling point of water				
	2) Q 3) R	R P					
			asia many lo huisi point of victor alo				
	1) P	\cap					
95	4) R If 80 g steam of tem	Q	ad on an ice slab of temperature O.C.				
95.	If 80 g steam of tem	perature 97°C is release	ed on an ice slab of temperature 0°C, he				
95.	If 80 g steam of tem much ice will melt?	perature 97°C is release How much energy will	ed on an ice slab of temperature 0°C, he be transfered to the ice when the steam wi				
95.	If 80 g steam of tem much ice will melt? be transformed to w	perature 97°C is release How much energy will vater ?	be transfered to the ice when the steam wi				
95.	If 80 g steam of tem much ice will melt? be transformed to w 1) 637 g and 5096	perature 97°C is release How much energy will vater ? 0 cal 2)	be transfered to the ice when the steam wi 637 kg and 50960 kcal				
95. 96.	If 80 g steam of tem much ice will melt? be transformed to w 1) 637 g and 5096 3) 376 kg and 569	perature 97°C is release How much energy will vater ? 0 cal 2) 00 kcal 4)	be transfered to the ice when the steam wi 637 kg and 50960 kcal 736 kg and 56900 cal				
	If 80 g steam of tem much ice will melt? be transformed to w 1) 637 g and 5096 3) 376 kg and 569 A car accelerates u	perature 97°C is release How much energy will vater ? 0 cal 2) 00 kcal 4) niformly from 36 km/h	be transfered to the ice when the steam wi 637 kg and 50960 kcal 736 kg and 56900 cal rr to 72 km/hr in 10 sec. Calculate (I) th				
	If 80 g steam of tem much ice will melt? be transformed to w 1) 637 g and 5096 3) 376 kg and 569 A car accelerates u acceleration and (II)	perature 97°C is release How much energy will vater ? 0 cal 2) 00 kcal 4) niformly from 36 km/h the distance covered by	be transfered to the ice when the steam wi 637 kg and 50960 kcal 736 kg and 56900 cal ar to 72 km/hr in 10 sec. Calculate (I) th the car in this time				
	If 80 g steam of tem much ice will melt? be transformed to w 1) 637 g and 5096 3) 376 kg and 569 A car accelerates u acceleration and (II)	perature 97°C is release How much energy will vater ? 0 cal 2) 00 kcal 4) niformly from 36 km/h the distance covered by 2)	be transfered to the ice when the steam wi 637 kg and 50960 kcal 736 kg and 56900 cal Ir to 72 km/hr in 10 sec. Calculate (I) th the car in this time 2 m/s ² , 100 m				
	If 80 g steam of tem much ice will melt? be transformed to w 1) 637 g and 5096 3) 376 kg and 569 A car accelerates u acceleration and (II) 1) 1 m/s ² , 150 m 3) 4 m/s ² , 50 m	nperature 97°C is release How much energy will vater ? 0 cal 2) 00 kcal 4) niformly from 36 km/h the distance covered by 2) 4)	be transfered to the ice when the steam wi 637 kg and 50960 kcal 736 kg and 56900 cal ar to 72 km/hr in 10 sec. Calculate (I) th the car in this time 2 m/s ² , 100 m 1 m/s ² , 100 m				
96.	If 80 g steam of tem much ice will melt? be transformed to w 1) 637 g and 5096 3) 376 kg and 569 A car accelerates u acceleration and (II) 1) 1 m/s ² , 150 m 3) 4 m/s ² , 50 m	nperature 97°C is release How much energy will vater ? 0 cal 2) 00 kcal 4) niformly from 36 km/h the distance covered by 2) 4) ct is uniform, then which	be transfered to the ice when the steam wi 637 kg and 50960 kcal 736 kg and 56900 cal Ir to 72 km/hr in 10 sec. Calculate (I) th the car in this time 2 m/s ² , 100 m				

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				and an application of the state
98.	The	velocity of a car increase linear	ly from	36 km/hr to 54 km/hr in 4 seconds. How
	muc	h is the work done, if the mass of	f the car	is 1600 kg ?
	1)	10 ³ J		10 ⁴ J
	3)	10 ⁵ J bioard turns.) ($10^6 J$ minimum in the H (2) $($
99.	Two	unequal masses possess the sam	emomen	ntum, then the kinetic energy of the heavier
	mas	s is than the kinetic energy	of the l	ighter mass.
	1)	More	2)	Less
	3)	Equal		Can not predict
100.	Am	an is 180 cm tall and his eyes are	10 cm b	elow the top of his head. In order to see his
	enti	re height, the minimum height of	f the pla	ne mirror required is
does	1)	180 cm	2)	90 cm
	3)	85 cm	4)	170 cm
101.	An	object 1 cm tall is placed 4 cm in	n front o	f a mirror. In order to produce an uprigh
		ge of 3 cm height one need		3) 10 q.
Wrstill	1)	Convex mirror ; R = 12 cm	2)	Concave mirror ; R = 12 cm
	3)	Convex mirror ; R = 4 cm	4)	Plane mirror of height 12 cm
102.	/	ertion : Sound can not travel thr	and the second	cuum.
		son : Sound wave is an electroma		
	1)	Assertion - true, Reason - false		Assertion - true, Reason - true
	3)	Assertion - false, Reason - true	and a second desired and a second	Assertion - false , Reason - false
103.	/	tch the column.	an de	
		Group-A		Group-B
	${a}$	Group-A Temperature of a healthy	I.	Group-В 296 К
	a)	Temperature of a healthy		· · · · · · · · · · · · · · · · · · ·
		Temperature of a healthy human body		296 K
	b)	Temperature of a healthy human body Boiling point of water	1	296 K
	b) c)	Temperature of a healthy human body Boiling point of water Room temperature	II.	296 K 98.6 °F 0°C 212°F
	b) c) d)	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water	II. III. IV.	296 K 98.6 °F 0°C 212°F
	b) c) d) 1)	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water a–II, b–I, c–IV, d–III	II. III. IV. 2)	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III
104	b) c) d) 1) 3)	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water a–II, b–I, c–IV, d–III a–II, b–IV, c–I, d–III	II. III. IV. 2) 4)	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–II, d–IV
104.	b) c) d) 1) 3) Inte	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water a–II, b–I, c–IV, d–III a–II, b–IV, c–I, d–III ernational space station and Hub	II. III. IV. 2) 4) ble teles	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–II, d–IV cope revolve in
104.	b) c) d) 1) 3) Inte 1)	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water a–II, b–I, c–IV, d–III a–II, b–IV, c–I, d–III ernational space station and Hub high earth orbit	II. III. IV. 2) 4) ble teles 2)	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–III, d–IV scope revolve in medium earth orbit
	b) c) d) 1) 3) Inte 1) 3)	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water a–II, b–I, c–IV, d–III a–II, b–IV, c–I, d–III ernational space station and Hub high earth orbit low earth orbit	II. III. IV. 2) 4) ble teles 2) 4)	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–III, d–IV scope revolve in medium earth orbit all the orbits
	b) c) d) 1) 3) Inte 1) 3)	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water a–II, b–I, c–IV, d–III a–II, b–IV, c–I, d–III ernational space station and Hub high earth orbit low earth orbit	II. III. IV. 2) 4) ble teles 2) 4)	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–III, d–IV scope revolve in medium earth orbit all the orbits
	b) c) d) 1) 3) Inte 1) 3)	Temperature of a healthyhuman bodyBoiling point of waterRoom temperatureFreezing point of watera–II, b–I, c–IV, d–IIIa–II, b–IV, c–I, d–IIIernational space station and Hubhigh earth orbitlow earth orbit 7×10^{-11} $\frac{Nm^2}{Nm^2} = 6.67 \times \frac{dyn}{Nm^2}$	$ \begin{array}{c c} II.\\ III.\\ IV.\\ 2)\\ 4)\\ ble teles\\ 2)\\ 4)\\ e \ cm^2 \end{array} $	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–II, d–IV scope revolve in medium earth orbit all the orbits
	b) c) d) 1) 3) Inte 1) 3)	Temperature of a healthyhuman bodyBoiling point of waterRoom temperatureFreezing point of watera-II, b-I, c-IV, d-IIIa-II, b-IV, c-I, d-IIIernational space station and Hubhigh earth orbitlow earth orbit 7×10^{-11} $\frac{Nm^2}{kg^2} = 6.67 \times$	II. III. IV. 2) 4) ble teles 2) 4)	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–III, d–IV scope revolve in medium earth orbit all the orbits
	b) c) d) 1) 3) Inte 1) 3) 6.6	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water a–II, b–I, c–IV, d–III a–II, b–IV, c–I, d–III ernational space station and Hub high earth orbit low earth orbit $7 \times 10^{-11} \frac{\text{Nm}^2}{\text{kg}^2} = 6.67 \times \dots \frac{\text{dyn}}{1000}$	$\begin{array}{c c} II.\\III.\\IV.\\2)\\4)\\ble teles\\2)\\4)\\ce \ cm^2\\g^2\end{array}$	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–III, d–IV scope revolve in medium earth orbit all the orbits
	b) c) d) 1) 3) Inte 1) 3) 6.6	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water a–II, b–I, c–IV, d–III a–II, b–IV, c–I, d–III ernational space station and Hub high earth orbit low earth orbit $7 \times 10^{-11} \frac{\text{Nm}^2}{\text{kg}^2} = 6.67 \times \dots \frac{\text{dyn}}{10^{-14}}$	$ \begin{array}{c c} II. \\ III. \\ IV. \\ 2) \\ 4) \\ ble teles \\ 2) \\ 4) \\ e \ cm^2 \\ g^2 \\ 2) \end{array} $	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–III, d–IV scope revolve in medium earth orbit all the orbits
	b) c) d) 1) 3) Inte 1) 3) 6.6	Temperature of a healthy human body Boiling point of water Room temperature Freezing point of water a–II, b–I, c–IV, d–III a–II, b–IV, c–I, d–III ernational space station and Hub high earth orbit low earth orbit $7 \times 10^{-11} \frac{\text{Nm}^2}{\text{kg}^2} = 6.67 \times \dots \frac{\text{dyn}}{10^{-14}}$	$ \begin{array}{c c} II. \\ III. \\ IV. \\ 2) \\ 4) \\ ble teles \\ 2) \\ 4) \\ e \ cm^2 \\ g^2 \\ 2) \\ 4) \end{array} $	296 K 98.6 °F 0°C 212°F a–IV, b–II, c–I, d–III a–I, b–II, c–II, d–IV scope revolve in medium earth orbit all the orbits

106. Equal currents i flow in two wires along x and y-axis as shown. Match the following.

i/		
area E terre	istration j	
	111	

1

		Column-I		Column-II		
	A)	Magnetic field in first quadrant	p)	Inwards		
	B)	Magnetic field in second quadrant	q)	Outwards		
	C) D)	Magnetic field in third quadrant Magnetic field in fourth quadrant	r)	May be inwards or outwards		
	Opti	ions :	i citi	Constant of the state of the		
	1)	A–p, B–q, C–p, D–r	2)	A-q, B-r, C-q, D-p		
	3)	A–r, B–q, C–r, D–p	4)	A–r, B–p, C–r, D–q		
7.	At w	hat temperature will its value be s	ame	in celsius and in fahrenheit ?		
	1)	40°		an $\pm 40^{\circ}$ mean mean brian the decord of a 6 mean mean brian the decord of the -40°		
	3)	32°	4)	0° Alexandra Anna Candidates Alexandra		
8.	Ligh	t passes from a medium A to anoth	her n	nedium B without bending at the interface		
	Whi	ch of the following is not possible ?	no sh			
	 A and B have the same refractive index and light falls on the interface obliquely A and B have the same refractive index and light falls on the interface 					
	,	A and B have the same refrac perpendicularly	tive			
	,	perpendicularly				
	2)	perpendicularly A and B have different refractive i	ndice	index and light falls on the interface		
9.	2) 3) 4)	perpendicularly A and B have different refractive i	ndice ndice	index and light falls on the interface es and light falls normally on the interface es and light falls obliquely on the interface		
9.	2) 3) 4)	perpendicularly A and B have different refractive i A and B have different refractive i	ndice ndice	index and light falls on the interface es and light falls normally on the interface es and light falls obliquely on the interface		
9.	2) 3) 4) In ne	perpendicularly A and B have different refractive i A and B have different refractive i earsightedness, the image of a dista	ndice ndice ant ol	index and light falls on the interface es and light falls normally on the interface es and light falls obliquely on the interface oject forms		
	2) 3) 4) In no 1) 3) What	perpendicularly A and B have different refractive i A and B have different refractive i earsightedness, the image of a dista In front of the retina Beyond the retina	ndice ndice ant of 2) 4)	index and light falls on the interface es and light falls normally on the interface es and light falls obliquely on the interface oject forms On the retina		
	 2) 3) 4) In no 1) 3) What lens 	perpendicularly A and B have different refractive i A and B have different refractive i earsightedness, the image of a dista In front of the retina Beyond the retina at is the minimum distance betweer	ndice ndice ant of 2) 4) n an o	index and light falls on the interface es and light falls normally on the interface es and light falls obliquely on the interface oject forms On the retina Any where object and its real image formed by a convey		

Space For Rough Work



IMPORTANT DATES				
SCREENING TEST (Shahu) - 2023 (OFFLINE MODE ONLY)	<u>02 Apr. 2023</u>			
Online display of provisional answer keys	02 Apr. 2023 : 06 PM			
Last Date Feedback and comments on Provisional Answer Keys from Candidates	04 Apr. 2023 : 06 PM			
Online declaration of final answer keys	01 A m 05 Apr. 2023 : 06 PM			
Copy of candidate responses to be available on the website	07 Apr. 2023 After 02 PM			
Result of SCREENING TEST 2022 (Indivisual Login)	07 Apr. 2023 After 02 PM			
Parent's Meet (PCM GROUP)	09 Apr. 2023 at 02-30 PM			
Parent's Meet (PCB GROUP)	09 Apr. 2023 at 11-00 AM			
Admissions : First List	09 Apr. 2023 to 13 Apr. 2023 UPTO 06 PM			
Admissions : Second List	15 Apr. 2023 to 18 Apr. 2023 UPTO 06 PM			

वरील तारखांमध्ये काही बदल होऊ शकतो विद्यार्थी आणि पालकांनी अधिक माहितीसाठी वेबसाईट पाहणे.