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Tim	no : Cobolactic Antitudo Test (Other	_				No. 100 Minutes Exil Marke 10
1 1111	ne : Scholastic Aptitude Test (Other					Blind) - 120 Minutes Full Marks : 10
	Read the follow	instruct ving instructions	tions to (e Questions
		are to be giver				
	the booklet and on the Answe	er-Sheet. For exa e '99', Centre Cod Blue or Black Poin	mple, a stu le ' 99 ' with	dent of Cl Roll No.	lass X appeari '999', will ma	red to the appropriate Block o ng from 'P' Centre, State Cod ke entries in the Block as well a
	-	Code Year	Code	Code	Roll No.	
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	For all subsequent purposes y as given on the Admission Ca		ear, Distrie	ct Code, C	entre Code and	d Roll No. shall remain the sam
2.	This Question Paper consists	of 100 Questions.				
3.	All questions carry 1 mark ea	ch.				
4.	Since all questions are compuls	ory, do not try to r	ead through	the whole	Question paper	r before beginning to answer it.
5.	Blank space has been provided	d for rough-work	at the end o	f each subj	iect.	
6.	Remember you have to dark pencil.	Remember you have to darken the circle of Answer-Sheet by a Blue or Black Ball Point Pen only; do not use a pencil.				
7.	Answer to each Question is to be indicated by darkening the circle by Blue or Black Ball Point Pen, the correct alternative in the Answer-Sheet from amongst the ones given for the corresponding Question in the question-booklet.					
8.	Now turn to the next page and start answering the questions.					



SCHOLASTIC APTITUDE TEST

OTHER SUBJECTS

Time : For General - 120 Minutes, For Disabled (Only Blind) - 150 Minutes

Full Marks : 100

INSTRUCTIONS

1. The subjects of Scholastic Aptitude Test are divided into three groups, as given below :

SI. No.	Title of the group Subjects covered under the group		Full Marks	No. of questions	Marks allotted to each question
(A)	Science Discipline	Physics, Chemistry and Biology	40	40	1 (one)
(B)	Mathematics	Mathematics	20	20	1 (one)
(C)	Social Studies and Humanities	History, Geography, Civics and Economics	40	40	1 (one)

Please Turn Over the Page and Start Your Work.



N	TSE STAGE-I [Dt : 24.01.2021]	SCHOLASTIC APITUDE TEST Solution 2020-2021 [3]			
	P	HYSICS				
1.	In circular motion which one is correct					
	(1) Constant Velocity	(2) Zero Acceleration				
	(3) Constant Speed	(4) Speed change				
Ans.	(Bonus)					
Sol.	According to English version.					
2.	A car travels half distance with speed 2 average speed of the car is	0 m/sec and next half distance travel with 30 m/sec th	ie			
	(1) Zero (2) 25 m/sec	(3) 24 m/sec (4) 5 m/sec				
Ans.	(3)					
Sol.	$V_{avg} = \frac{2v_1v_2}{v_1 + v_2} = \frac{2 \times 20 \times 30}{20 + 30} = \frac{2 \times 20 \times 30}{50}$	$\frac{30}{2} = 24 \text{ m/s}.$				
3.	A body is travelling with speed 20 m/se after 2 sec is	ec having acceleration 4 m/sec ² the speed of the boo	ły			
	(1) 8 m/sec (2) 12 m/sec	(3) 16 m/sec (4) 28 m/sec				
Ans.	(4)					
Sol.	v = u + at					
	v = 20 + 4 × 2 = 28 m/s.					
4.	The weight of a body is 9.8 Newton, whe	en g = 9.8 m/sec ² the mass of the body is				
	(1) Zero (2) 9.8 kg	(3) 10 kg (4) 1 kg				
Ans.	(4)					
Sol.	Weight, w = mg					
	\Rightarrow 9.8N = m × 9.8 m/s ² .					
	∴ m = 1kg					
5.	Flying birds has					
	(1) Only kinetic energy					
	(2) Only potential energy					
	(3) Both kinetic energy and potential e	nergy				
	(4) Only pressure energy					
Ans.	(3)					
Sol.	A flying bird has both potential energy a	nd kinetic energy.				



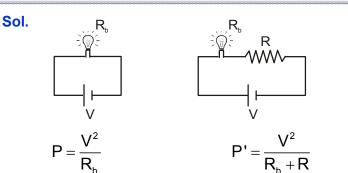
NTSE STAGE-I [4]

[Dt:24.01.2021]

6.	Two bodies of mass 2 gram and 4 gram having same kinetic energy having their ratio of linear momentum as
	(1) $2:1$ (2) $\sqrt{2}:1$ (3) $1:2$ (4) $1:16$
Ans.	(2)
Sol.	Kinetic Energy, $K = \frac{p^2}{2m} \Rightarrow p = \sqrt{2mK}$
	$\frac{p_{1}}{p_{2}} = \frac{\sqrt{2m_{1}K_{1}}}{\sqrt{2m_{2}K_{2}}}$
	\therefore K ₁ = K ₂
	$\therefore \frac{p_1}{p_2} = \sqrt{\frac{m_1}{m_2}} = \sqrt{\frac{2}{4}} = \frac{1}{\sqrt{2}}$
	$\therefore \frac{p_2}{p_1} = \frac{\sqrt{2}}{1}$
7.	The ratio of gravitational acceleration on the surface of Earth and Moon is
	(1) $\sqrt{6}:1$ (2) $1:\sqrt{6}$ (3) $1:6$ (4) $6:1$
Ans.	(4)
Sol.	$g_m = \frac{g_e}{6}$
	$\therefore \frac{g_{e}}{g_{m}} = \frac{6}{1}$
8.	The weight of a wooden block is w. The append weight of the body on a floating water.
	(1) w (2) more than w (3) less than w (4) Zero
Ans.	(4)
Sol.	Apparent weight = Real weight – Buoyant force.
	$\therefore W_{app} = W - F_{B}$
	Since the body floats hence,
	$W = F_B \therefore W_{app} = 0$

N	SE STAGE-I	[Dt : 24.01.20	21] SCHOLA	STIC APITUDE TE	ST Solu	tion 2020-2021 [5]
9.	In a simple Pe	endulum the displa	cement is equal to	amplitude. Then	kinetic e	energy will be
	(1) highest	(2) Zero	(3)	No change	(4) 1	None
Ans.	(2)					
Sol.	At maximum o is zero.	displacement of sin	nple pendulum, Po	otential energy is	maximu	m and kinetic energy
10.	Heat and work	k done by the heat	was discovered b	у		
	(1) James V	Vatt (2) Dr. D	D. Joule (3)	Rudolf Diesel	(4) 1	Newcomen
Ans.	(BONUS)					
11.	•	of a convex len of the object from t		nage formed is do	uble the	length of the object.
	(1) -30 cm	(2) –200	cm (3)	–60 cm	(4) 3	30 cm
Ans.	(1)					
Sol.	$m=\frac{f}{f+u}$					
	$\Rightarrow -2 = \frac{20}{20 + 2}$	u				
	$\Rightarrow -40 - 2u =$	= 20				
	$\Rightarrow -2u = 60$					
	∴ u = –30cm					
12.	An Electric mo	otor takes 37.5 Am	p. to start. Then it	s efficiency is		
	(1) 1 Horse	Power	(2)	500 Watt		
	(3) 54 Watt		(4)	750 Horse Powe	er	
Ans.	(Bonus) Infor	mation is insuffic	cient.			
13.	The intensity of	of the bulb will dec	rease when a resi	stance is connect	ed	
	(1) In series	5				
	(2) In paralle	el				
	(3) Series o	r parallel				
	(4) Intensity	cannot be decrea	sed			
Ans.	(1)					





Intensity ∞ Power ∞ brightness

Hence, P' < P

So, When resistance is connected in series, intensity will decrease.

CHEMISTRY

14. Assertion: 2-Bromobutane on reaction with sodium ethoxide in ethanol gives 2-butene as a major product.

Reason: 1-Butene is more stable than 2-butene.

Read the assertion and reason carefully to mark the correct option.

- (1) Both assertion and reason are true and the reason is the correct explanation of the assertion.
- (2) Both assertion and reason are true and the reason is not the correct explanation of the assertion.
- (3) Assertion is true but the reason is false.
- (4) Assertion is false but the reason is true.

Ans. (3)

Sol.
$$CH_{3} - CH - CH_{2} - CH_{3} \xrightarrow{C_{2}H_{5}ONa} CH_{3} - CH = CH - CH_{3}$$
$$|_{Br}$$

 $CH_3 - CH = CH - CH_3$ is more stable than 1-Butene. Because 2-Butene is more alkylated.

- 15. KO₂ (Potassium superoxide) is used in oxygen cylinders in space and submarines because it
 - (1) absorbs CO_2 and increase O_2 content.
 - (2) eliminates moisture
 - (3) absorbs CO₂
 - (4) produces Ozone

Ans. (1)

Sol. $KO_2 + CO_2 \rightarrow K_2CO_3 + O_2$

N	ISE STAGE-I [Dt : 24.01.2021]	SCHOLAS	STIC APITU	IDE TEST Solution 2020-2021 [7
16.	A solution of sodiu anode and cathode		is electrolys	ed using in	ert electrodes. The products at the
Ans.	(1) H ₂ , O ₂ (2)	(2) O ₂ , H ₂	(3)	O ₂ , Na	(4) O ₂ , SO ₂
Sol.	Anode $4OH^- \rightarrow 4$	$e^{-1} + 2H_2O + O_2$			
	Cathode	$2H^+ + 2e^{-1} \rightarrow H_2$	<u>,</u> ↑		
17.		ta solution and (ii)			olourless gas which produces (i) nate solution green. The reaction
	(1) CO_3^{2-}	(2) S ²⁻	(3)	SO32-	(4) NO_3^-
Ans.	(3)				
Sol.	$SO_3^{2-} + H_2SO_4 \rightarrow S_3^{2-}$	SO ₂			
	$SO_2 + Ba(OH)_2 \rightarrow$	► BaSO ₃ + H ₂ O turbidity			
	$SO_2 + Cr_2O_7^{2-} \rightarrow SO_7$	$O_4^{} + \frac{Cr^{3+}}{green \ solution}$			
18.	A gas formed by solution, the gas is		olic KOH c	on ethyl ioc	lide decolourises alkaline KMnO4
Ans.	(1) CH ₄	(2) C ₂ H ₆	(3)	C_2H_4	(4) C ₂ H ₂
Sol.	$CH_3 - CH_2 - I - \frac{al}{\kappa c}$	$CH_2 = CH_2$			
	$CH_2 = CH_2 - KMnO_4$				
19.	Given pH of a solu pH of solution will l		mixed with a	another sol	ution B having pH 2. The resultant
	(1) 3.2	(2) 1.9	(3)	3.4	(4) 3.5
Ans.	(Bonus)				
Sol.	Assuming equal vo				
	$V \times 10^{-3} + V \times 10^{-2}$	$= 2V \lfloor H^+ \rfloor$			
	$H^{+} = \frac{1}{2} \Big[11 \times 10^{-3} \Big]$				
	$H^{+} = 5.5 \times 10^{-3}$				
	pH = 3-log5.5=3	374 = 2.26			



[8]	NTSE STAGE-I [Dt : 24.01.2021] SCHOLASTIC APITUDE TEST Solution 2020-2021
20.	A light greenish salt is soluble in water. On passing H_2S gas into solution, a black precipitate is obtained which dissolves readily in HCI. The metal ion present is
	(1) Fe^{2+} (2) Co^{2+} (3) Ni^{2+} (4) Mn^{2+}
Ans.	(1)
Sol.	$Fe^{2+} + H_2S \rightarrow FeS_{black}$
	$FeS + HCI \rightarrow FeCI_2 + H_2S \uparrow$
	All sulphite except NiS, CoS, are soluble in HCI
21.	Bonds present in $CuSO_4.5H_2O$ are
	(1) Electrovalent and covalent
	(2) Electrovalent and Co-ordinate
	(3) Electrovalent, covalent and Co-ordinate
	(4) Covalent and Co-ordinate
Ans.	(3)
Sol.	CuSO ₄ .5H ₂ O
	Cu^{++} with $SO_4^{} \rightarrow$ electrovalent
	$SO_4^{}$ and $H_2O \rightarrow \text{covalent}$
	Cu^{++} with $H_2O \rightarrow$ Co-ordinate
22.	An organic compound (X) on treatment with acidified $K_2Cr_2O_7$ gives a compound (Y) which reacts with I_2 and sodium carbonate to form tri-iodomethane. The compound (X) is
	(1) $CH_{3}OH$ (2) $CH_{3} - C - CH_{3}$ (3) $CH_{3}CHO$ (4) $CH_{3} - CH - CH_{3}$ $H_{3} - CH - CH_{3}$ (3) $CH_{3}CHO$ (4) OH
Ans.	(4)
	$CH_3 - CH_3 - CH_3 \xrightarrow{K_2Cr_2O_7} CH_3 - CH_3 - CH_3$
Sol.	$CH_{3} - CH - CH_{3} \xrightarrow{K_{2}Cr_{2}O_{7}} CH_{3} - C - CH_{3}$ $OH \qquad \qquad$
	<pre></pre>

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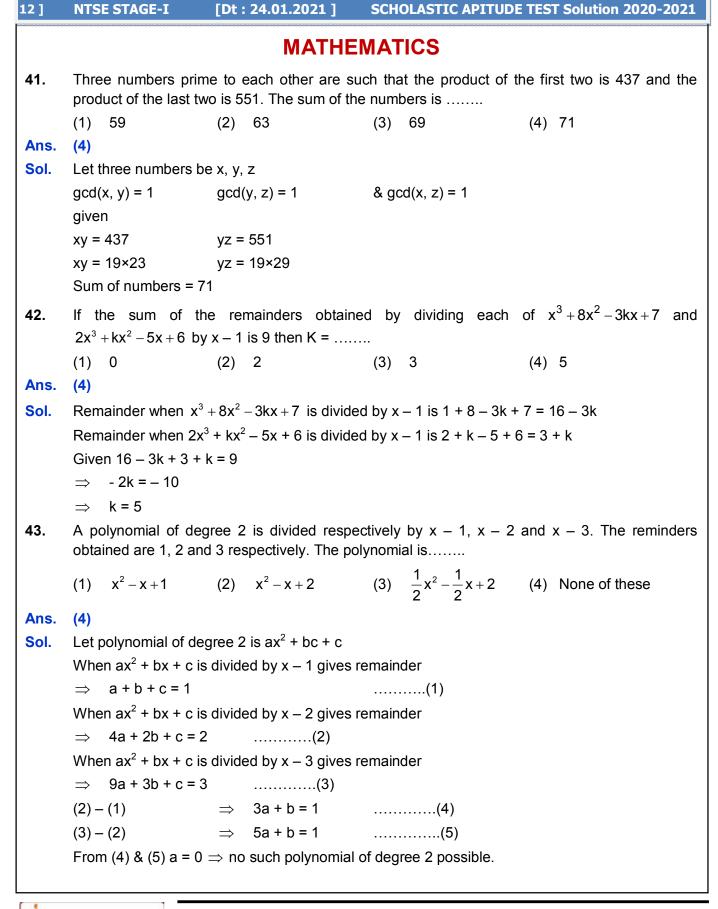
N	TSE STAGE-I [Dt : 24.01.2021] SCHOLASTIC APITUDE TEST Solution 2020-2021 [9]
23.	How many litres of CO_2 at STP will be formed when 100 ml of 0.1 M H_2SO_4 reacts with excess of Na_2CO_3 ?
	(1) 22.4 (2) 2.24 (3) 0.224 (4) 5.6
Ans.	(3)
Sol.	$Na_{2}CO_{3} + H_{2}SO_{4} \rightarrow Na_{2}SO_{4} + CO_{2} + H_{2}O$ excess
	100 ml of 0.1 M .01 mole
	10 milli mole
	.01 mole
	.01 mole × 22.4 = .224 L
24.	Which compound has the weakest bond?
	(1) Diamond (2) Neon (Solid) (3) KCl (4) Water (ice)
Ans.	(2)
Sol.	Vander wall force (London force)
25.	Which one of the following is used as antiknock compound?
	(1) Lead tetrachloride (2) Lead acetate
	(3) Lead formate (4) Tetraethyl lead
Ans.	(4)
Sol.	$(C_2H_5)_4 Pb \rightarrow Pb + C_2H_5$. (free radical)
	(Show antiknocking)
26.	A bottle of ammonia and a bottle of dry hydrogen chloride connected through a long tube are opened simultaneously at both ends. The white ammonium-chloride ring first formed will be
	(1) At the centre of the tube
	(2) Near the hydrogen chloride bottle
	(3) Near the ammonia bottle
	(4) Throughout the length of the tube
Ans.	(2)
Sol.	$R(diffusion) \propto \frac{1}{\sqrt{mol.wt}}$
	molecular wt. NH_3 < molecular wt. HCl
	So white fumes near HCI end.



10]	NTSE STAGE-	I [Dt	: 24.01.2021]	SCHOLASTIC AP	TUDE TEST Solution 2020-2021			
			BIO	LOGY				
27.	The Xylem ar	e responsibl	e for					
	(1) Transpo	ort of food in	plants	(2) Transport of	water in plants			
	(3) Transpo	ort of amino a	acids	(4) Transport of (oxygen			
Ans.	(2)							
28.	Which of the f	ollowing is n	ot a polymer ?					
	(1) Cellulos	e (2)	Glycogen	(3) Protein	(4) Glucose			
Ans.	(4)							
29.	The disease t	hat affects o	ur lungs is					
	(1) AIDS	(2)	Rabies	(3) Polio	(4) Tuberculosis			
Ans.	(4)							
30.	Which of the f	ollowing is n	ot a plant hormo	ne?				
	(1) Auxin	(2)	Florigen	(3) Cytokinin	(4) Oxytocin			
Ans.	(4)							
31.	Select the odd	d one from th	ne following:					
	(1) Stigma : Style : Ovary (2) Anther : Filament : Pollen				nent : Pollen			
	(3) Cotyledo	on : Radicle	: Plumule	(4) Pollen : Pollen tube : Pellicle				
Ans.	(4)							
32.	The mode of	nutrition in F	ungi is					
	(1) Autotrop	hic nutrition		(2) Holozoic nutr	ition			
	(3) Saprotro	ophic nutritio	n	(4) Parasitic nutr	ition			
Ans.	(3)							
33.	Which of the f	ollowing con	nposition represe	ents energy rich food	?			
	(1) Vitamins	s and minera	ls					
	(2) Carbohy	drates and f	ats					
	(3) Water a	nd roughage	:					
	(4) Proteins	and minera	l salts					
Ans.	(2)							
34.	The products	obtained du	ring anaerobic re	spiration in plants are	e			
	(1) Lactic a	cid + Energy	,					
	(2) Pyruvic	acid + Energ	Ъ					
	(3) Ethanol	+ Carbon die	oxide + Energy					
	(4) Carbon	dioxide + En	ergy					
Ans.	(2)							

N	ISE S	TAGE-I [Dt : 24.01.	.2021] SCHO	LAS	TIC APITUDE 1	EST Solution 2020-2021 [11]	
35.	Wha	at will happen it all the dee	er are killed in the g	give	n food chain?		
	Gras	ss \rightarrow Deer \rightarrow Lion					
	(1)	The population of Lion i	increase				
	(2)	The population of grass	s decrease				
	(3)	The population of Lion of	decrease and grass	s ind	crease		
	(4) The population of Lion remain unchanged						
Ans.	(3)						
36.	The	pores in a leaf through w	which respiratory ex	cha	nge of gases ta	akes place are	
	(1)	Xylem (2) S	Stigma (3	3)	Lenticels	(4) Stomata	
Ans.	(4)						
37.	Whe	en we destroy forest, we c	destroy				
	(1)	Population of wild life	(2	2)	The trees		
	(3)	The environment	(4	4)	Food and shelter of wild animals		
Ans.	(4)						
38.	Whi	ch of the following is not a	a natural resources	\$?			
	(1)	Soil (2) W	Vater (c	d)	Electricity	(4) Air	
Ans.	(3)						
39.	look					is found that the plants which neration, which of the plants A	
	(1)	A are tall and B are also	o tall (2	2)	A are tall and I	3 are dwarf	
	(3)	A are dwarf and B are ta	all (4	4)	A are dwarf an	d B are also dwarf	
Ans.	(3)						
40.	Pick	the right combination of	terms which has no	o fo	ssil fuel -		
	(1)	Wind, Wood, Sun					
	(2)	Kerosene, Wind, Tide					
	(3)	Petroleum, Wood, Sun					
	(4)	Wind, Ocean, Coal					
Ans.	(1)						





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[Dt: 24.01.2021]

If the equations $x^2 + bx + a = 0$ and $x^2 + ax + b = 0$, $(a \neq b)$ have equal roots then $a + b = \dots$ 44. (1) - 1 (2) 0 (3) 1 (4) None of these Ans. (1) According to hindi version of question Sol.(1)(2) $x^{2} + bx + a = 0$ $x^{2} + ax + b = 0$ (1) - (2)(b-a)x + (a-b) = 0 \Rightarrow x = 1 is root of both equations \Rightarrow 1 + a + b = 0 \Rightarrow a + b = -1 According to English version of question ...(1) $b^2 - 4a = 0$ $a^2 - 4b = 0$...(2) $(2) - (1), (a^2 - b^2) + 4(a - b) = 0$ \Rightarrow (a-b) (a+b+4) = 0 \Rightarrow a + b = -4 Ans. (4) 45. In a right-angled triangle, the difference of the hypotenuse and the base is 2 cm. The hypotenuse exceeds twice the height by 1 cm. The base of the triangle iscm. (3) 17 (1) 8 (2) 15 (4) 21 Ans. (2) Given $b - c = 2 \implies c = b - 2$ Sol. $b = 2a + 1 \implies a = \frac{b-1}{2}$ & b а B c Also by Pythagoras theorem $b^2 = a^2 + c^2$ $\Rightarrow b^2 = \left(\frac{b-1}{2}\right)^2 + (b-2)^2$ $\implies \quad b^2 = \left(\frac{b-1}{4}\right)^2 + (b-2)^2$



14]	NTSE STAGE-I	[Dt : 24.01.2021]	SCHOLASTIC API	TUDE TEST Solution 2020-2021
46.	$\Rightarrow b^{2} - 18b + 17$ $\Rightarrow b^{2} - 17b - b + 325$ $\Rightarrow b(b - 17) - 1(225)$ $\Rightarrow (b - 1)(b - 17)$ $\Rightarrow b = 1, 17$ For $b = 1 \Rightarrow c = -555$ For $b = 17 \Rightarrow c = -555$ By adding 1 to the set	+ 17 = 0 b - 17) = 0) = 0 - 1 (not possible) 15		0, which are divisible by 7 and 8
	(1) 25	(2) 29	(3) 33	(4) 37
Ans.	(2)			
Sol.	Numbers divisible b	y 7 and 8 between 1 and	d 300 is 56, 112, 168	, 224, 280
	given,	56 + 112 + 168 + 224	+ 280 + 1 = p	
		841 = p		
	$\Rightarrow \sqrt{p} = 29$			
47.	If in and A.P., the p	th term $=\frac{1}{q}$ and the q^{th} to	erm $=\frac{1}{p}$, then the pq	th term =
	(1) -1	(2) 0	(3) 1	(4) None of these
Ans.	(3)			
Sol.	Let first term be a a	nd common difference b	e d	
	Given $T_p = \frac{1}{q} =$	$>$ a + (p - 1)d = $\frac{1}{q}$	(1)	
	$T_q = \frac{1}{p} \Longrightarrow a + (q-1)c$	$I = \frac{1}{p}$	(2)	
	(1) – (2)			
	$(p-q)d = \frac{1}{q} - \frac{1}{p}$			
	$d = \frac{1}{pq}$			

NTSE STAGE-I

[Dt:24.01.2021]

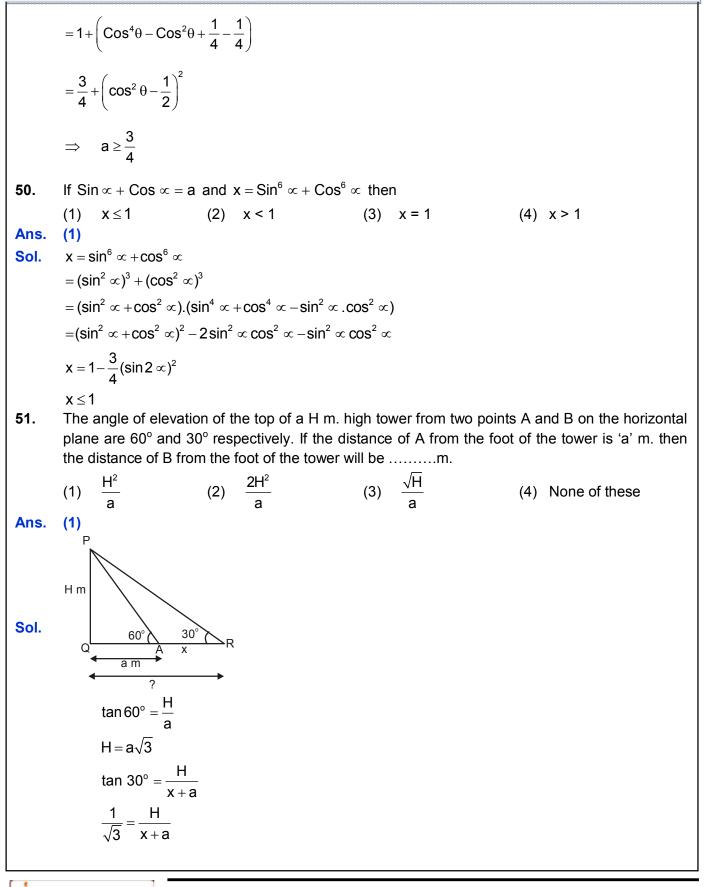
SCHOLASTIC APITUDE TEST Solution 2020-2021 [15]

From (1)
$$a + (p-1)\frac{1}{pq} = \frac{1}{2}$$

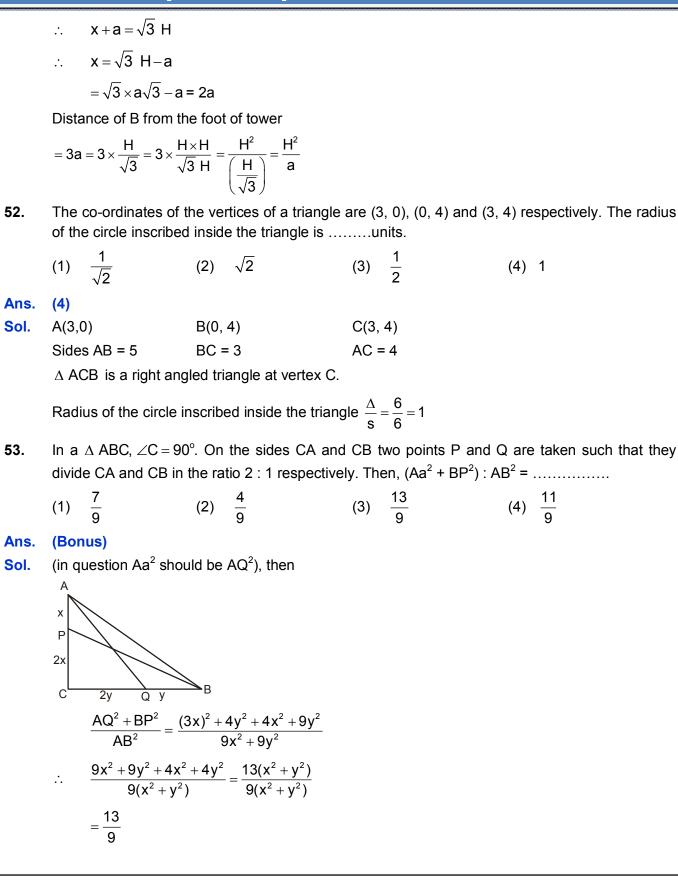
 $a = \frac{1}{pq}$
 $T_{pq} = a + (pq-1)d = \frac{1}{pq} + (pq-1)\frac{1}{pq} = 1$
48. If $x = 2^{en^2\theta}$, $y = 2^{cos^2\theta}$ for all real values of θ , then
(1) $x + y = 1$ (2) $x + y = 2$ (3) $x + y \le 2\sqrt{2}$ (4) $x + y \ge 2\sqrt{2}$
Ans. (4)
Sol. $x = 2^{en^2\theta}$, $y = 2^{cos^2\theta}$
 $x + y = 2^{en^2\theta}$, $y = 2^{cos^2\theta}$
 $x + y = 2^{en^2\theta} + 2^{ean^2\theta}$
 $= 2^{en^2\theta} + 2^{ean^2\theta}$
As $2^{en^2\theta} > 0$
By $AM \ge GM$
 $\frac{2^{en^2\theta}}{2} + \frac{2}{2^{en^2\theta}} \ge \sqrt{2^{en^2\theta} \times \frac{2}{2^{en^2\theta}}}$
 $2^{en^{2\theta}} + \frac{2}{2^{en^{2\theta}}} \ge \sqrt{2^{e^{-e^2}\theta} \times \frac{2}{2^{en^2\theta}}}$
49. If , for all real values of θ ; $a = Sin^2 \theta + Cos^4 \theta$ then
(1) $a \ge \frac{3}{4}$ (2) $a \le \frac{3}{4}$ (3) $a = 1$ (4) $a = \frac{1}{2}$
Ans. (1)
Sol. $a = Sin^2 \theta + Cos^4 \theta$



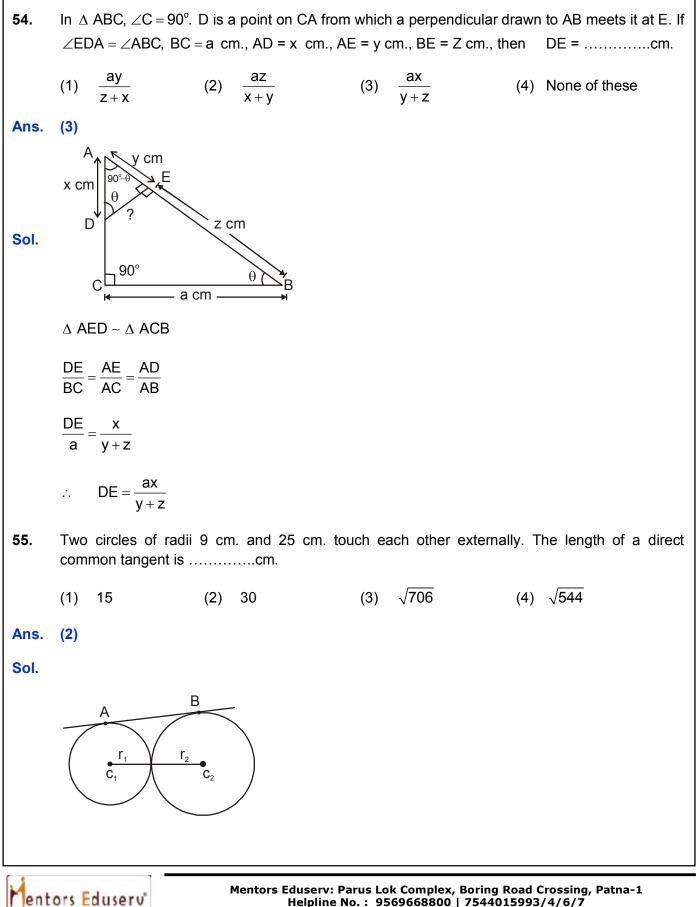
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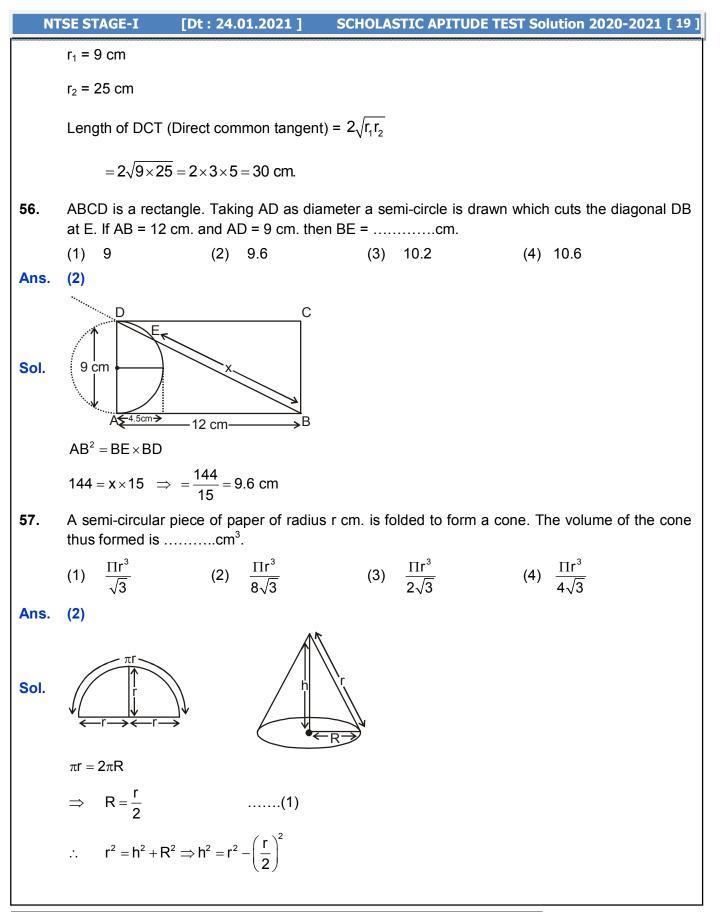


SCHOLASTIC APITUDE TEST Solution 2020-2021 [17

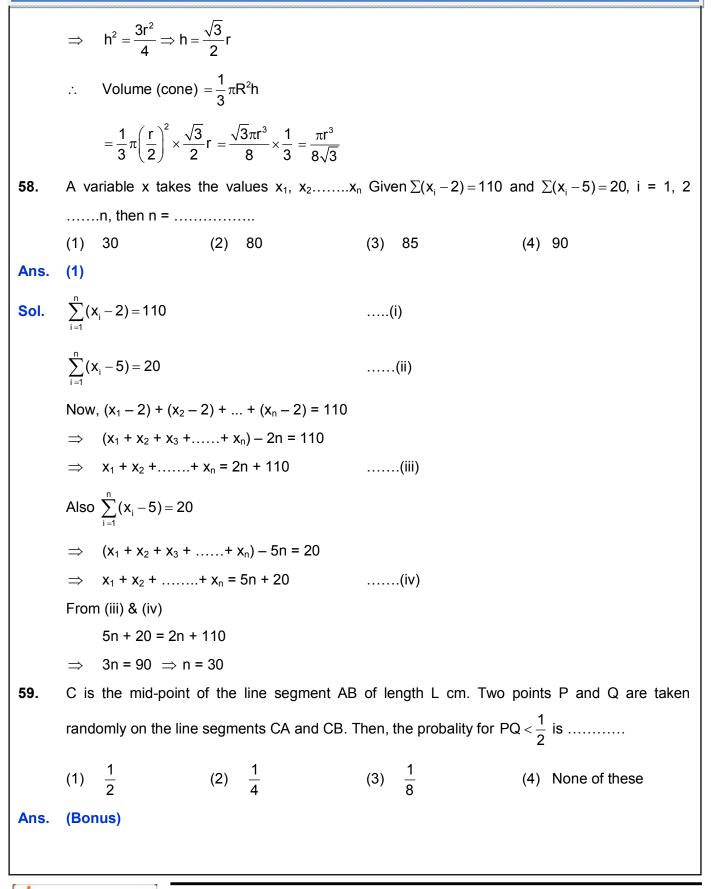


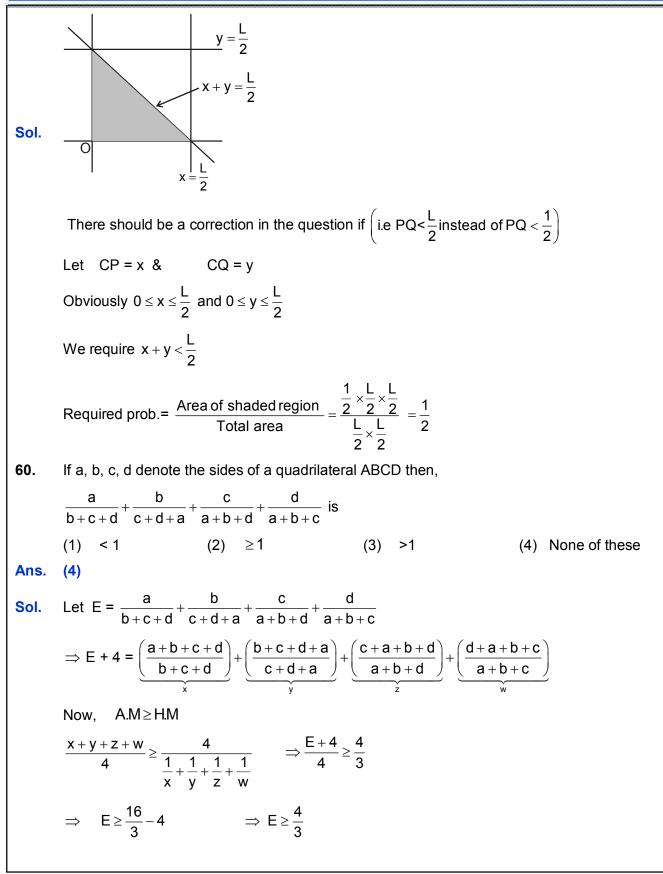














22]	NTSE STAGE-I	[Dt	: 24.01.2021]	SCH	OLASTIC APIT	UDE TEST Solution 2020-2021
			HIS ⁻	TOR	Y	
61.	After the defea	t of Napole	on where did the	Vict	or Powers asse	emble in 1815 ?
	(1) Vienna	(2)	London	(3)	Paris	(4) Rome
Ans.	(1)					
62.	Which dynasty	succeeded	I the Bourbon dyn	asty af	ter the 1830 rev	volution?
	(1) Habsburg	g (2)	Orleans	(3)	Tsardom	(4) None of these
Ans.	(2)					
63.	Charles Albert	was the Kir	ng of which count	ry?		
	(1) Naples	(2)	Parma	(3)	Modena	(4) Sardinia
Ans.	(4)					
64.	What was Zolly				.	
		al's Union		(2)	Clergy's Unio	
A m a		onaries Unic	on	(4)	Trader's Unio	'n
Ans. 65.	. (4) When was Karl Marx born?					
05.	(1) 1810	(2)	؛ 1818	(2)	1825	(4) 1830
Ans.	(1) 1810 (2)	(2)	1010	(3)	1025	(4) 1000
66.		author of 'W	ar and Peace"?			
•••	(1) Tolstoy	(2)		(3)	Lenin	(4) St. Simon
Ans.	(1)	(-)		(-)		
67.	Who built the A	Angkorwat 7	Temple?			
	(1) Jayavarn	nan		(2)	Suryavarman	II
	(3) Mahendr	avarman		(4)	Rudravarman	1
Ans.	(2)					
68.	In 1878 which	Viceroy pas	sed the "Vernacu	ılar Pre	ss Act" ?	
	(1) Lord Ripo	on (2)	Lord Lytton	(3)	Lord Curzon	(4) Lord Chelmsford
Ans.	(2)					
69.	Who establishe	ed the Ram	akrishna Mission?	?		
	(1) Ramkrish	nna Paramh	ans	(2)	Ishwar Chanc	dra Vidyasagar
	(3) Swami V	ivekananda	l	(4)	Devendra Na	th Thakur
Ans.	(3)					

٦N	ISE S	TAGE-I [D	t : 24.	01.2021] SC	CHOLA	STIC APITUDE	TEST Solution 2020-2021 [23]			
70.			Rabin	dra Nath Tagore s			-			
	(1)	Rowlatt Act			(2)	Khilafat Movement				
Ans.	(3) (3)	Jallianwala Ba	gn ma	ssacre	(4)	Coming of Simon Commission				
71.		Who invented the "Safety Lamp" ?								
	(1)	Humphrey Dur	-		(2)	Richard Arkv	vright			
	(3)	James Hargrea	aves		(4)	Edmund Cartwright				
Ans.	(1)									
72.		•	-	aper "Som Prakas		Del Ceneradk	an Tilak			
	(1) (3)	Ishwar Chandr Ram Mohan R		asagai	(2) (4)	Bal Gangadhar Tilak M. G. Ranade				
Ans.	(1)		c y		(')					
				GEOG	RAP	ΉY				
73.	Bha	ratpur Bird sanc	tuary i	s situated in						
	(1)	Gujarat	(2)	Rajasthan	(3)	Assam	(4) Bihar			
Ans.	(2)									
74.	The	highest Literacy	rate i	n India is in	?.					
	(1)	West Bengal	(2)	Maharashtra	(3}	Kerala	(4) Punjab			
Ans.	(3)									
75.	Wh	ere is ropeway i	n Biha	r?						
	(1)	Bihar Sharif	(2)	Rajgir	(3)	Gaya	(4) Munger			
Ans.	(2)									
76.	Sele	ect the correct st	ateme	nts						
	(a)	Koshi river is s	orrow	of Bihar.						
	(b)	Parrot is the na	ational	bird of India.						
	(C)	Maruti Industry	is situ	uated in Delhi.						
	(d)	Varanasi is situ	uated	on the bank of rive	er gang	ges.				
	(1)	a and d	(2)	b and c	(3)	b, c and d	(4) a, c and d			
Ans.	(1)									
77.	Whi	ch one is correct	?							
	(1)	Jammu and Ka	ashmir	⁻ - Jojila	(2)	Himachal Pradesh - Thagla				
	(3)	Uttarakhand -	Nathu	la	(4)	Sikkim - Ship	bkila			
Ans.	(1)									



24]	NTS	SE STAGE-I [Dt : 24.01.2021] SCHOLASTIC APITUDE TEST Solution	2020-2021							
78.	Whi	nich name is correct for Patna Airport ?								
	(1)	(1) Jai Prakash Narayan International Airport								
	(2)	Patna Airport								
	(3)	Rajendra Prasad International Airport								
	(4)	Bihar Airport								
Ans.	(1)									
79.	The	e main problems of industrial backwardness of Bihar is								
	(1)	Lack of raw material (2) Lack of capital/money								
	(3)	Lack of electricity(4)All of the above								
Ans.	(4)									
80.	Whi	hich statement is not correct?								
	(a)	Medha Patekar is related with Narmada Bachao Andolan.								
	(b)	New alluvial soil is termed as Bangar.								
	(C)	Mangrove Forest found in the coastal area of India.								
	(d)	Plantation agriculture is one of the type of commercial farming.								
	(1)	a (2) b (3) b, c and d (4) c and d								
Ans.	(2)									
81.		nich of the following cities are located on the Western Coast of India?								
	(1)	-								
	(2)									
	(3)									
	(4)	Amrawati, Puna, Pudduchery (Pondicherry)								
Ans.	(1)	last the correct statements								
82.		lect the correct statements								
	(a)	Mount K ² is the highest peak of India								
	(b)	-								
	(c)	Nuclear disaster is very dangerous for the world.								
	(d)									
	(1)	a and b (2) a and c (3) a, band c (4) a, b and d								
Ans.	(3)									

N	rse s	STAGE-I [Dt : 24.01.2021] SCHOLASTIC APITUDE TEST Solution	2020-2021 [25]								
83.	The	ne Golden Quadrilateral Super highway connected with the following									
	(1)) Jammu, Bikaner, Jodhpur, Rajkote									
	(2)	Porbandar, Bikaner, Amritsar, Srinagar									
	(3)	Delhi, Mumbai, Chennai, Kolkata									
	(4)	Sikkim, Siliguri, Jorhat, Agartalla									
Ans.	(3)										
84.	Sele	elect the correct statements									
	(a)) Muscovite is known as Bengal Ruby.									
	(b)) Gold is metallic mineral.									
	(C)) Kahalgaon Super Thermal Power is in Uttar Pradesh.									
	(d)) Anthracite is one type of iron.									
	(1)) a (2) a and b (3) a, band c (4) a, band	d								
Ans.	(Bo	Bonus)									
		CIVICS									
85.	Whi	hich one of the following term is not included in the preamble to the Indian Co	nstitution?								
	(1)) Republic (2) Justice (3) Monarchy (4) Equality	ý								
Ans.	(3))									
86.	Whi	hich of the following does not lead to the spread of democracy?									
	(1)) Struggle by people (2) Invasion by Foreign Govern	ment								
	(3)) End of Colonialism (4) People's desire for freedom									
Ans.	(2))									
87.	Whi	hich one of the following statement about the Indian President is true?									
	(1)) He appoints Chief Minister in States.									
	(2)	· · ·									
	(3)										
	(4)										
Ans.	(4)										
88.		hich of the following institutions can amend the Constitution of India?									
	(1)										
	(3)										
Ans.	(1))									



26]	NTS	E STAGE-I	[Dt : 24.0	1.2021]	SCH	OLASTIC API	ITUDE TEST Solution 2020-2021		
89.	Whi	ch of the followin	ng are the fe	eatures of Fe	ederal	Government?	2		
	(I)	Unwritten Constitution			(II)	(II) Division of Powers			
	(III)	Single Citizens	hip		(IV)	Independer	nt Judiciary		
	(1)	I and II	(2) II ar	nd III	(3)	I and IV	(4) II and IV		
Ans.	(4)								
90.	Dea	ling with social divisions which one of the following statement IS not true about democracy?							
	(1)	Democracy is the best way to accommodate social diversity.							
	(2)	Democracy alv	emocracy always leads to disintegration of society.						
	(3)	In a democracy, it is possible for communites to voice their grievances in a peaceful manner.							
	(4)	Due to political	competitio	n in a demo	cracy, s	social divisior	n get reflected in politics.		
Ans.	(2)								
91.	Wha	at do the civil ser	vants do ?						
	(1)	They take polic	cy decisions	6.	(2)	They imple	ment minister's decision.		
	(3)	They settle the	disputes.		(4)	None of the	ese		
Ans.	(2)								
92.	Whi	ch one of the foll	owing does	s not help in	the for	mation of Put	blic Opinion?		
	(1)	Newspaper			(2)	Radio			
_	(3)	Playground			(4)	Educationa	I Institutional		
Ans.	(3)								
				ECON	OMI	CS			
93.	At p	resent which for	m of money	is increasir	ngly use	ed apart from	paper money?		
	(1)	Commodity mo	oney		(2)	Metallic mo	ney		
	(3)	Plastic money			(4)	All of the ab	oove		
Ans.	(3)								
94.	Cho	ose the correct of	combinatior	ı					
	<u>Star</u>	ndardized Marks	<u>s Pro</u>	<u>duct</u>					
	(i)	ISI	(a)	Jewellery	/				
	(ii)	FPO	(b)	Electrical					
	(iii)	Hallmark	(C)	Food					
	(iv)	Agmark	(d)	Agricultu	ral Prod	duct			
	(1)	i-a, ii-b, iii-c, iv-	-d		(2)	i-c, ii-d, iii-a	, iv-b		
	(3)	i-b, ii-c, iii-a, iv-	-d		(4)	i-d, ii-c, iii-b	, iv-a		
Ans.	(3)								

NTSE STAGE-I [Dt : 24.01.2021] SCHOLASTIC APITUDE TEST Solution 2020-2021 [27]

95.	are hous busi	ere are 1000 households in the village of Almora, of which the loan taken by 200 households from the State Bank of India, another 200 households from their friends and relatives, 50 iseholds from Indian Bank, 100 households from Regional Rural Bank, 150 households from sinessmen, 100 households from village headmen and 200 households from cooperative ieties. Which of the following statements is/are correct?								
	I.	Formal sources of credit are lower than the others.								
	II.	Institutional sources of credit are higher than others .								
	III.	Non-institutional sources of credit are higher than others.								
	IV.	Informal sources of credit are higher than others.								
	(1)	Only I	(2)	Only II	(3)	I and II	(4) III and IV			
Ans.	(2)									
96.	Whi	ch of the following	g stat	ements about Sust	tainab	le Developmen	t is/are correct?			
	I.	The word 'Susta	inab	le Development' ca	ame ir	nto existence in	the year 1980.			
	II.		•	oment is developm ility of future gener			needs of the present without own needs.			
	III.	Brundtland Corr	nmiss	ion is related to Su	ustain	able Developme	ent.			
	(1)	I and II	(2)	I and III	(3)	Only II	(4) I, II and III			
Ans.	(4)									
97.	Whi	ch of the following	g stat	ements is/are corre	ect ab	out the NITI Aa	yog ?			
	I.	NITI Aayog was	esta	blished on 1 Janua	ary 20	15.				
	II.	The Prime Minis	ster o	f India is the ex off	icio C	hairperson of th	ne NITI Aayog.			
	III.	NITI, Aayog rep	laced	the Planning Com	nmiss	ion of India in 20	014.			
	(1)	I and II	(2)	II and III	(3)	Only I	(4) I, II and III			
Ans.	(1)									
98.	Mixe	ed Economy means an economy where there is								
	(1)	Existence of capitalism								
	(2)	Privatization, lit	berali	zation and globaliz	ation					
	(3)	Existence of bot	h pu	blic and private sec	ctors.					
	(4)	Growing crops a	along	with rearing anima	als					
Ans.	(3)									



28]	NTS	E STAGE-I	[Dt :	24.01.2021]	SCH	OLASTIC API	TUDE TEST Solution 2020-2021			
99.	Which of the following is not a function of the commercial bank in an economy?									
	(1)	Accepting De	posits							
	(2)	Providing Loa	ns							
	(3)	Locker Facilit	es							
	(4)	(4) Acting as a Banker's Bank								
Ans.	(4)									
100.	If GI	DP for a country	y X is \$1	30 million in 2020	and	its population	is 20,000, GDP per capita is			
	(1)	6500	(2)	130	(3)	0.0065	(4) 650			
Ans.	(1)									

