NATIONAL TALENT SEARCH EXAMINATION-2019-20, ANDRA PRADESH SCHOLASTIC APTITUDE TEST (SAT) PAPER & HINTS & SOLUTION

CHEMISTRY

M	
11	
	KI

From the above experimental setup, what precipiate we obtain and what is the colour of obtained precipitate ?

- (1) Lead Iodide-Yellow
- (C) Lead Iodide-Red

Pb(NO_)2

(B) Potassium Nitrate Yellow(D) Pota

Ans.

(1)

1.

$$Pb(NO_3)_2(aq) + 2KI_{(aq)} \rightarrow PbI_2(s) + 2KNO_3(aq)$$
(Yellow ppt.)

2. Assertion (A) : Isotopes are electrically neutral.

Resason (R) : Isotopes are species with same mass number but different atomic number.

(1) Both (A) and (R) are true and (R) is the correct explanation to (A)

(2) (A) is true, but (R) is false.

- (3) Both (A) and (R) are true, but (R) is not the correct explnation to (A)
- (4) (A)is false but (R) is true

Ans. (2)

- Sol. Factual statement
- 3. Find the composition of Stainless Steel.
 - (1) Fe, C, Ni (B) Fe, Cr, Cu

Ans. (3)

- Sol. Factual statement
- 4. Find the correct matching

		Bond	Bor	nd Energy KJ/mol		
	(A)	HH	(1)	193		
	(B)	Br-Br	(2)	366		
	(C)	H-CI	(3)	432		
	(D)	H-Br	(4)	436		
(1) A-4, B-1, C-3,D-2	(2) A-	-2, B-3, C-4,D-1	(3)	A-4, B-3, C-1,D-2		

(C) Fe, Cr, Ni

(4) A-3, B-4, C-2,D-1

(D) Fe, Ni, Cu

Ans. (1) Sol.

Bond		Bor	nd Energy KJ/mol
(A)	HH	(1)	436
(B)	Br-Br	(2)	193
(C)	H-CI	(3)	432
(D)	H-Br	(4)	466



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5.	The allowable combinations of quar	ntum numbers for each of the electron in 4s, 3p, 5d	orbitals			
	respectively.					
	(1) n = 4,1 = 0, m _l = 0; n = 3,l = 2, m _l = -1; n = 5, l=3, m _l = -2					
	(2) n = 4,1 = 0, m _l = +1; n = 3,l = 2,	m _l = -1; n = 5, I=3, m _l = 0				
	(3) n = 4,1 = 0, m _l = 0; n = 3,l = 1, m	n₁ = 0; n = 5, l=2, m₁ = −1				
	(4) n = 4,1 = 0, m _l = 0; n = 3,l = 0, m	n _l = 0; n = 5, l=1, m _l = 0				
Ans.	(3)					
Sol.	n l	m				
	4s 4 0	0				
	3p 3 1	+1, 0, -1				
6	50 5 2	± 2,± 1,0				
0.						
	$CH_3 = C = CH_2 = COOH$					
	(1) 3—Hydroxy-3-methyl butanoic a	acid (2) 3—Hydroxy-2-methyl butane				
	(3) 3,3-Diethyl butane	(4) 3—Ethyl-2-methyl propane				
Ans.	(1)					
	CH ₃ 4 31 2 1					
Sol.	$\dot{C}H_3 - \dot{C} - \dot{C}H_2 - \dot{C}OOH$					
	он					
	A B C D					
7.						
	Cu Al Fe Zn					
	If we added FeSO4 to above four te	est tubes, in which test tube we observe black residu	ie ?			
	(1) "A" and "B" (2) "A" and	d "C" (3) "B" and "C" (4) "E	3" and "D"			
Ans.	(4)					
8.	Match the following					
		A D Donal Frances K l/mail				

...

	List-P	Bor	nd Energy KJ/mol
(A)	Ethane	(i)	436
(B)	Ethylene	(ii)	193
(C)	Acetylene	(iii)	432
(D)	Benzene	(iv)	2 sp ² carbons

The correct answer is

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(1) A-3, B-4, C-1, D-2 (2) A-2, B-3, C-1, D-4 (3) A-3, B-2, C-4, D-1 (1) (4) A-4, B-3, C-1, D-2

Ans.

Sol. In Ethane, each carbon has 4 sigma bonds = sp^3 hybridisation In Ethane, each carbon has 3 sigma bonds = sp^2 hybridisation In Acetylene, each carbon has 2 sigma bonds = sp^2 hybridisation In Benzene, each carbon has 3 sigma bonds = sp^2 hybridisation

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9.	The elements A,B,C ar	nd D have atomic	numbe	rs 9,10,11 and 12 res	pectively. T	he correct order of
	ionization energy is					
	(1) B > A > D > C	(2) B > A > C >	D	(3) A > B > C > D		(4) D > C > B > A
Ans.	(1)					
Sol.	In the modern period	ic table when w	e move	e from left to right i	n same pe	eriod, ionisation energy
	increases . In the mode	ern periodic table	e when v	we move from top to	bottom in a	same group, ionisation
	energy decreases.					
10.	An atom 'A' belongs to	o III A group and	d anothe	er atom "B" belongs	to VI A gro	oup. The formula of the
	compound formed is					
A	(1) A ₂ B	(2) A ₂ B ₃		(3) A_3B_3		(4) A ₃ B ₆
Ans.	(2)	alanay of alaman			lanav of olo	mont B is 2
501.	ma group means the v	alency of element	IL A IS 3,	VIA group means va	lency of ele	
11	Set of elements with th	e following atomi	ic numbe	ers belongs to the sa	me aroun	
	(1) 9 16 35 3	(2) 12 20 4 38		(3) 11 19 27 5	ne group.	(4) 24 47 42 55
Ans.	(2)	(2) 12,20, 1,00		(0) 11, 10, 21,0		(1) 21, 11, 12,00
Sol.	⁴ Be, 12Mg, 20Ca, 38Sr					
12.	Find the correct increas	sing order of ioni	c radius	among		
	Al ³⁺ , Mg ²⁺ , O ^{2–} , F					
	(1) $F^{-} < Mg^{2+} < Al^{3+} < C$) ²⁻		(2) $AI^{3+} < Mg^{2+} < O$	^{2–} < F [–]	
	(3) $AI^{3+} < Mg^{2+} < F^{-} < C$) ⁻²		(4) $Mg^{2+} < F^{-} < O^{-2}$	² < Al ³⁺	
Ans.	(3)					
Sol.	Al ³⁺	Mg ²⁺	F ⁻	O ²⁻		
	∠ 13 e ⁻ 10	12	9 10	8 10		
13.	Electro-negativity of the	e following eleme	ents incre	ease in the order		
	(1) C,N,Si,P	(2) P,Si,N,C		(3) Si, P,C,N		(4) N,Si,C,P
Ans.	(3)		_	-		
Sol.	Electronegativity value	Si 1.8	P 21	C 2 5	N 3.0	
14.	Which of the following i	is the correct stat	tement ?	2.0	0.0	
	I. The peninsular platea	au is one of the n	nost anc	ient land blocks on th	ne earth's su	urface.
	II. One of the remarkat	le features of the	e penins	ular plateau is black s	soils formed	I due to volcanic
	activity.					
	(1) Only I is true	(2) Only II is co	rrect	(3) I and II are corre	ect	(4) I and II are
	incorrect					
Ans.	(3)					
Sol.	Both the given stateme	ents are correct.				
15.	Which of the following i	is not true with re	eference	to the climatic condit	ion required	d for the cultivation of
	rice ?	114			·	i
	(1) It requires high hum	naity		(2) It requires high t	emperature	e i.e. above 25°C.
Cal	(3) it requires annual ra	annan above 100	CIII.	(4) it requires 210 fr	ust nee day	y5.

Sol. The requirement for frost free days is for Cotton.



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16.	Which of the following state	ments is not true reg	arding India's climate?				
	(1) India's climate has						
	(2) The climate has characteristics of tropical as well as subtropical climate						
	(3) The climate of India is described as the monsoon type.						
	(4) The North-East monsoo	ns are responsibly fo	or most of the rainfall in India.				
Ans.	(4)						
Sol.	Most of the rainfall in INdia	occurs due to South	West Rainfall.				
17.	Which of the following lake	is a fresh water lake	?				
	(1) Sambhar (2)	Chilka	(3) Pulicat	(4) Dal			
Ans.	(4)						
Sol.	Dal lake is a Fresh Water La	ake					
18.	Population Change in a place	ce is					
	(1) (No. of births + No. of in	migrants) - (No. of o	deaths + No. of out migrants)				
	(2) (No. of births + No. of in	migrants) – (No. of o	deaths + No. of out migrants)				
	(3) (No. of births + No. of in	migrants) - (No. of I	pirths + No. of out migrants)				
	(4) (No. of births + No. of in	migrants) - (No. of I	pirths + No. of out migrants)				
Ans.(1)							
Sol.	Population Change is calcu	lated by adding the r	no. of immigrants and brith rate a	and subtracting number			
	of out migrants and death ra	ate.					
19.	Which of the following is no	t correct regarding ".	Jet Streams" ?				
	(1) These are fast flowing a	ir currents in a narro	w belt inthe upper atmosphere.				
	(2) These causes rain from	clouds.					
	(3) Jet Streams develops at	about 35 °N.					
	(4) These causes the neigh	bouring atmosphere	cool.				
Ans.	(3)						
Sol.	Jet Streams develop at 25°l	N.					
20.	Which is correct regardign I	Rural - Urban migrati	on ?				
	a.Migration mainly due to in	sufficient employme	nt opportunities in rural areas.				
	b. Migration does not neces	sarily.					
	c.They have greater exposu	ire to new ideas in c	ities and try to challenge older no	otions in village.			
	(1) None of these (2)	a,b	(3) b,c	(4) a,b,c			
Ans.	(4)						
Sol.	All the given options are con	rrect					

21. Match the following :

	Column-I		Column-II
(A)	Loo	(i)	Coromandal Coast
(B)	Mango showers	(ii)	Andhra Pradesh
(C)	Winter rainfall	(iii)	Dry and hot winds
(D)	Upper air currents	(iv)	Jet Streams

(1) A-3,B-2,C-1,D-4 (2) A-4,B-3,C-2,D-1 (3) A-2,B-3,C-1,D-4 (4) A-1,B-2,C-3,D-4

Ans. (1)

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			IT SEARCH EXAMINAT	ION- 03.11.2019 Andra Pradesh SA	AT		
Sol.	Loo-Dry and Hot Winds						
	Mango Showers - Andhra Pradesh						
	Winter Rainfall - Coromondal Coast						
	Upper Air Currents - Jet S	Streams					
22.	Kudremukh is an importa	nt Iron ore mine of					
	(1) Madhya pradesh (2) Karnataka	(3) Kerala	(4) Andhra Pradesh			
Ans.	(2)						
Sol.	Kudremukh mines are sit	uated in Karnataka					
23.	Statement I : Density of p	opulation in North-Ea	ist States is less due to	o heavy rainfall.			
	Statement II : Density of	population in Kerala is	s high due to flat surfac	ce fertile soil and abundant rainfall.			
	(1) Both I, II are true (2) Both I,II are false	(3) I is true, but II is	fase(4) I is false, but II is true			
Ans.	(4)						
Sol.	Statement I is false and I	l is true					
24.	The ocean beds are rich	in					
	(1) Copper (2) Manganese	(3) Iron	(4) Gold			
Ans.	(2)	, 3					
Sol.	The ocean beds are rich	in Manganese.					
25.	Among the following state	ements, which is not t	rue?				
	(1) The portion of range f	ound south of the Gre	ater Himalayas is kno	wn as lesser Himalavas'			
	(2) The average elevation	of Himachal range is	s about 6 100 mts abo	we MSI			
	(2) Himachal range is ma	(2) Him average elevation of minacharrange is about 6, 100 mts. above MSL.					
	(J) The Pirpanial and Ma	habbarata ranges for	my compressed rocks.	s of the Himachal			
Ano		nabrialata ranges ion	in the important ranges	sor the rimachai.			
Alls.	(2) The altitude varies betwe	on 3 700 and 4 500 n	actrop and the average	width is of 50 km			
501.	The allitude valles betwe	en 3,700 and 4,500 m					
26	The radius of surveture a	<u>РП</u> f a plana aapyay lans	<u>ISICS</u> which has 2 refrective	index is 20 em. By eaching Cilver			
20.	The radius of curvature of	Ta plano-convex lens	s which has 2 refractive	a index is 20 cm. By apprying Silver			
	Bromide on its surface to	change it as a conca	ve mirror, what is the t	ocal length of the formed mirror ?			
•	(1) 5 cm (2) 10 cm	(3) 20 cm	(4) 40 cm			
Ans.	(1)						
Sol	$P_{ret} = 2 \times P_t + P_{te} = 2 \times (1)$	$(-1)\left[\frac{1}{-1},\frac{1}{-1}\right] + \left(\frac{1}{-1}\right)$	_)				
001.		$\begin{bmatrix} \mathbf{R}_1 & \mathbf{R}_2 \end{bmatrix} \begin{bmatrix} \mathbf{f}_m \end{bmatrix}$)				
	[1]						
	$P_{net} = 2 \times (2-1) \left \frac{1}{2} - \frac{1}{(-1)} \right $	$\frac{1}{12}$ + $\frac{1}{-(-0.10)}$					
	_~ (C						
	$P_{net} = 2 \times 5 + 10 = 20 D$						
	$f_{net} = \frac{1}{20} = 5 \text{ cm}$						
27.	Assertion (A) : The veloci	ity of a particle may va	ary even when it's spe	ed is constant.			
	Reason (R) : The particle	Reason (R) : The particle is moving in circular path.					
	(1) (A) is true, but (R) is f	(1) (A) is true, but (R) is false.					
	(2) (A) is false , but (R) is	true					
	(3) Both (A) and (R) are true and (R) is correct explanation to (A)						
	(4) Both (A) and (R) are t	(4) Both (A) and (R) are true, but (R) is not correct explanation to (A).					
Δne	(3)						
201 201	(J) Both (A) and (P) are true	and (P) is correct ev	Δ				
501.							
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28.	A convex lens of focal length 20 cm is cut into two halves. Each of which is placed 0.5 mm and a point
	object placed at a distance of 30 cm from the lens as shown.
	Then the image is at
	(1) 50 cm (2) 60 cm (3) 30 cm (4) 70 cm
Ans.	(2)
Sol.	$\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$
	$\frac{1}{v} - \frac{1}{(-30)} = \frac{1}{20}$ v = 60 cm
29.	A point object is placed at a distance of 10 cm and its real image is formed at a distance of 20 cm from a concave mirror. When the object is moved by 0.1 cm towards the mirror, then the image will be moved by about (1) 0.4 cm away from the mirror (3) 0.8 cm away from the mirror (4) 0.8 cm towards the mirror
Ans	(4) 0.0 cm towards the minor
Sol.	$\frac{1}{1} + \frac{1}{1} = \frac{1}{4}$
	V U T
	$dv = (du) \left \frac{v^2}{u^2} \right $
	$dv = (-0.1) \left[-\frac{400}{100} \right] = + 0.4 \text{ cm (away from mirror)}$
	\times \times \times \times \times
30.	$\times \qquad \longrightarrow \lor \lor \lor$
	X X R X
	As per the above figure
	(1) The end "Ä" of the rod becomes positively charged.
	(2) Electric current flows along the rod from A to B.
	(3) The rod AB is uniformly charged
	(4) The end "B" of the rod becomes charged
Ans.	(1) On applying flowingle right hand rule, recreation force on electrone is truered, and D. Os and A
501.	On applying tieming's right hand rule, magnetic force on electrons is towards end B. So end A will become Positively charged.

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Resonance[®] NATIONAL TALENT SEARCH EXAMINATION-| 03.11.2019 | ANDRA PRADESH | SAT| $\frac{4}{8} = \frac{5}{k} = \frac{9}{18}$ so. k = 10 (4) $\alpha + \beta = 2, \alpha\beta = 1$ $\alpha^{3} + \beta^{3} = (\alpha + \beta)^{3} - 3\alpha\beta(\alpha + \beta)$ $(2)^3 - 3 \times (2) = 2$ 40. 20 cards numbered 1,2,3.....20 are put in a box and mixed thoroughly. One person draws a card from the box, the probability that the number on the card is divisible by 2 and 3 both $(1) \frac{1}{10}$ (2) $\frac{3}{10}$ (3) $\frac{3}{20}$ $(4) \frac{1}{5}$ Ans. (3)Sol. Total outcomes = 20 Favorable outcomes = (6, 12, 18) Probability = $\frac{3}{20}$. If $\cos \theta = \frac{a}{b}$ then $\csc \theta + \cot \theta$ in terms of a and b is 41. (3) $\sqrt{\frac{a+b}{a-b}}$ (1) $\sqrt{\frac{b+a}{b-a}}$ (2) $\sqrt{\frac{b-a}{b+a}}$ (4) $\sqrt{\frac{a-b}{a+b}}$ Ans. (1) If $\cos\theta = \frac{a}{b}$ Sol. then, $\csc \theta + \cos \theta = \frac{1}{\sin \theta} + \frac{\cos \theta}{\sin \theta} = \frac{1 + \cos \theta}{\sin \theta} = \frac{1 + \cos \theta}{\sqrt{1 - \cos^2 \theta}}$ $=\frac{1+\frac{a}{b}}{\sqrt{1-\frac{a^{2}}{b^{2}}}}=\frac{\frac{b+a}{b}}{\sqrt{\frac{b^{2}-a^{2}}{b^{2}}}}=\frac{b+a}{\sqrt{b^{2}-a^{2}}}=\sqrt{\frac{b+a}{b-a}}$ The sum of a number and its reciprocal is $2\frac{1}{6}$, then the number is 42. (2) $\frac{4}{5} \operatorname{or} \frac{5}{4}$ (3) $\frac{3}{4} \operatorname{or} \frac{4}{3}$ (1) $\frac{5}{6}$ or $\frac{6}{5}$ (4) $\frac{2}{3}$ or $\frac{3}{2}$ Ans. (4) Let the number of Sol. $\Rightarrow a + \frac{1}{a} = \frac{13}{6}$ \Rightarrow 6a² - 13a + 6 = 0 \Rightarrow 6a² - 9a - 4a + 6 = 0 \Rightarrow 3a (2a - 3) - 2 (2a - 3) = 0 \Rightarrow (2a - 3) (3a - 2) = 0 \therefore a = $\frac{3}{2}$ or $\frac{2}{3}$

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43.	If α and β are	e the zeroes of the quadratic p	polynomial $P(x) = x^2 +$	qx – p, then the value of $\frac{1}{\alpha}$ +	$\frac{1}{\beta}$ is
	(1) <u>-P</u>	(2) <mark>q</mark>	(3) <u>p</u>	(4) <u>-q</u>	
Ans.	(2)				
Sol.	$\alpha + \beta = -q$				
	αβ = –p				
	so, $\frac{1}{\alpha} + \frac{1}{\beta} =$	$\frac{\alpha+\beta}{\alpha\beta} \qquad = \frac{-q}{-p} = \frac{q}{p}$			
44.	If $\frac{x-y}{xy} = 5a$	and $\frac{x+y}{xy} = 7$, then the value of	of 'x' is		
	(1) $\frac{1}{6}$	(2) $\frac{1}{2}$	(3) $\frac{1}{3}$	(D) 1	
Ans.	(4)				
Sol.	$\frac{x-y}{xy} = 5$	$\frac{X+Y}{XY} = 7$			
	$\frac{1}{y} - \frac{1}{x} = 5$	$\frac{1}{y} + \frac{1}{x} = 7$			
	Let $\frac{1}{y} = a$,	$\frac{1}{x} = b$			
	a – b = 5				
	$\underline{a+b=7}$				
	2a = 12				
	a = 6				
	6 + 0 = 7 b = 1				
	$\frac{1}{y} = 6 \Rightarrow y =$	$\frac{1}{6}$			
	$\frac{1}{x} = 1 \Longrightarrow x =$	1			
45.	If AP is a tar	ngent to the circle with centre	'O' such that OP = 4c	$ m m$ and $ m \angle$ OPA = 60° , then the	radius of
	the circle is				
	(1) 2cm	(2) 3cm	(3) $2\sqrt{3}$ cm	(4) 2 √2 cm	
Ans.	(3)				
Sol.	∠ OPA =60°	, OP = 4 cm			
	\Rightarrow sin 60° =	$\frac{OA}{4}$			

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Ans.

(1)

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	$14 \dots 7 \bigwedge^{C} 7 12 \text{ cm}$				
	$F \longrightarrow E$				
	$_{\rm x}$ $\tilde{\Lambda}_{\rm v}$				
Sol.	Ахрур				
	Let $AD = AF = x$	BD = BE = y	CE = CF = z		
	x + y = 10	(1)			
	y + z = 12	(2)			
	z + x = 14	(3)			
	\Rightarrow 2 (x + y + z) = 36				
	x + y + z = 18((4)			
	equation (4) – equation	(2)			
	x = 18 – 12	x = 6		2.4	
49.	If two positive integers	'a' and 'b' are expressi	ble in the from of a = p ³	q^2 and b = $p^2 q^4$, p and q being	
	prime number, then LC (1) 3^{1}	M (a, b) is	(2) 3 4	(A) 3 5	
-	(1) p°q'	(2) p²q²	(3) p ³ q ⁴	(4) p ^o q ^o	
Ans.	(3)				
Sol.	$a = p^{2}q^{2}$				
	$\mathbf{p} = \mathbf{p} \mathbf{q}$				
50	LCIVI $(a, b) = p^{2}q$	equation and 200 v L ain	200 y = 2 is		
50.	The solution of the line	equation $\cos 30^\circ x + \sin \theta$	$30^{\circ} y = 3 \text{ is}$	<u> </u>	
	A. (2,3)	B.(0,6)	C.(2√3,0)	D.(0,2√3)	
	(1) B and C	(2) A	(3) C and D	(4) A and D	
Ans.	cos 30° x + sin 30° y = 3	3			
	$\rightarrow \frac{\sqrt{3}x}{\sqrt{3}x} + \frac{1}{\sqrt{3}x} = 3$				
	$=$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$				
	$\Rightarrow \sqrt{3} x + y = 6 \dots (1)$)			
	As points $B(0.6) \& C(2)$	$\sqrt{3}$ (1) satisfying the equ	lation		
51	As points $B(0,0) \approx C(2)$	ius 2 om is moltod and i	recent inte a right eireula	r ages of beight 2 am. Then the	
51.	radius of the base of the	e cone is	recast into a right circula	a cone of height 5 cm. Then the	
	(1) 3cm	(2) 5cm	(3) 4cm	(4) 6cm	
Ans	(4)	(2) 0011			
Sol	Volume of sphere = Vol	lume of cone			
001.					
	$\Rightarrow \frac{1}{3}\pi r_1^3 = \frac{1}{3}\pi r_2^2 h$				
	$\Rightarrow 4r_1^3 = r_2^2h$				
	$\Rightarrow 4 \times 3^3 = r_2^2 \times 3$				
	$\rightarrow 4 \times 9 = r_0^2$				
	\Rightarrow r_{0}^{2} = 36 = 6 ²				
	$\Rightarrow r_2 = 6 \text{ cm}$				
52	$= \frac{1}{12} = 0 \text{ cm}$ If the points (a. 2a) (3a)	. 3a) and (3.1) are collin	ear then the value of 'a' i	9	
02.	2 2			1	
	(1) $\frac{2}{3}$	(2) $\frac{2}{3}$	$(3) \frac{1}{2}$	$(4) \frac{1}{3}$	
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Ans. (4)

Sol. Points are collinear

 \Rightarrow area of triangle formed by given 3 points is zero

$$\Rightarrow \frac{1}{2} |a (3a-1) + 3a (1-2a) + 3(2a - 3a)| = 0$$

$$\Rightarrow -3a^2 - a = 0$$

$$\Rightarrow a(3a+1) = 0$$

$$\Rightarrow a = 0 \text{ or } a = -\frac{1}{3}$$

53. From the adjacent figure \triangle ABC, DE || BC and AD = $\frac{1}{2}$ BD. If BC = 6 cm then DE is



54. Match the item in Column-I with Column-II.

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		Column-I			Column-II
	(A) Slope of x -ax	is		1.	sec0°
	(B) Slope of y-axi	s		2.	sin0°
	(C) distance betwe	een the points (sin 55°	°, 0) and (0, sin 35°)	3.	cot0°
	(1) A→2,B→1,C→3	(2) A→3,B→1,C→2	(3) A→2,B→3,C→1	(4) A→1,B→2,C→
.ns.	(3)				
ol.	(A) Slope of x-axis	(y = 0)	$m = 0 = \sin 0^{\circ}$		
	(B) Slope of x-axis	(x = 0)	$m = \frac{y}{x} = \infty = \cot 0^{\circ}$		
	(C)distance between t	he points (sin 55°, 0) an	d (0,sin 35°) = $\sqrt{(\sin 55^\circ)}$	-0) ²	$+(0-\sin 35^\circ)^2$
	$= \sqrt{\sin^2 55^\circ + \sin^2 35^\circ}$		(1)		
	as sin 35° = sin (90°–5	55°) = cos 55°	(2)		

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NATIONAL TALENT SEARCH EXAMINATION-| 03.11.2019 | ANDRA PRADESH | SAT|from (1) and (2) $\sqrt{\sin^2 55^\circ + \cos^2 55^\circ} = 1 = \sec 0^\circ$ $A \rightarrow 2, B \rightarrow 3, C \rightarrow 1$ 55.55.Metallic spheres of radii 15cm, 20 cm and 25 cm respectively are melted to form a single solid sphere.
Then the radius of the resulting sphere is
(1) 35 cm (2) 25 cm (3) 20 cm (4) 30 cmAns.(4)

 $\Rightarrow \frac{4}{3}\pi R^{3} = \frac{4}{3}\pi r_{1}^{3} + \frac{4}{3}\pi r_{2}^{3} + \frac{4}{3}\pi r_{3}^{3}$ $\Rightarrow \frac{4}{3}\pi R^3 = \frac{4\pi}{3} [15^3 + 20^3 + 25^3]$ $\Rightarrow R^3 = 27000$ \Rightarrow R = $\sqrt[3]{27000}$ = 30 cm 56. If α and β are the zeroes of the polynomial P(x) = x² + 3x + k such that $\alpha - \beta = 5$, then the value of k is (1) - 4(2) - 3(3)5(4) 2 Ans. (1) If α and β are the zeroes of the polynomial P(x) then Sol. Sum of zeroes $\alpha + \beta = \frac{-b}{2} = -3$(1) Product of zeroes $\alpha\beta = \frac{c}{a} = k$(2) $\alpha - \beta = 5$ Solving equation (1) and (3), we have $\alpha = 1, \beta = -4$ Put value of α and β in equation (2), we have (1) (-4) = k \Rightarrow k = -4 If -2 is a root of the quadratic equation $x^2 - px + 6 = 0$ and $x^2 + px - k = 0$ has equal roots, then the 57. value of k is (1) 14 (2) 18 (3) 6 (4) 10 (Correct option is not available) Ans. $P(x) = x^2 - px + 6 = 0$ and $Q(x) = x^2 + px - k = 0$ Sol. If -2 is a root of P(x) then P(-2) = $0 \Rightarrow (-2)^2 - p(-2) + 6 = 0$ \Rightarrow 4 + 2p + 6 = 0 $\Rightarrow p = -5$(1) Also, Q (x) has equal roots then D = 0 \Rightarrow p² - 4 (-k) = 0 $\Rightarrow p^2 = -4k$(2) From equation (1) and (2) \Rightarrow (-5)² = -4k $\Rightarrow \kappa = \frac{-25}{4}$

58. If \triangle ABC is an equilateral triangle such that AD \perp BC, then AD² =

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Sol. Both the given statements are correct.

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(3)

- 62. Which of the following is correct regarding with "Coliation Government" ?
 - (1) Power shared by different groups
 - (2) Power shared among Governments at different levels.
 - (3) Power shared by two or more political parties
 - (4) Power shared among different organisations of Government

Ans.

- Sol. When power is shared between two or more political parties it is called Coalition Government.
- 63. What type of information is not accessible to the citizen as per RTI?
 - (1) The manner of executions of subsidy programmes, including amounts allocated.
 - (2) Endanger the life or physical safety of a person.
 - (3) The particulars of its organization, functions and duties.
 - (4) The powers and duties of its officers and employees.
- Ans. (2)
- Sol. The threat to safety is not accessible to the people.
- 64. Identify the pointed states with their corresponding Social and Environment movements and select the correct option using the codes given below.



(1) A-Silent Valley Movement, B-Chipko movement, C-Narmada Bachao Andolan, D-Meira Paibi Mvoement

(2) A - Narmada Bachao Andolan, B-Silent Valley Movement, C-Chipko Movement , D-Meira Paibi Movement

(3) A-Silent Valley Movement, B-Narmada Bachao Andolan, C-Chipko Movement, D-Meira Paibi Movement

(4) A-chipko movement, B-Narmada Bachao Andolan, C-Silent Valley Movement , D-Meira Paibi Movement

Ans.

(3)

Sol. Silent Valley Movement- Kerala, Western Ghats

Narmada Bachao Aandolan - Gujrat

Chipko Movement - Uttarakhand



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65.	With reference to the Fundamental Rights, Consider the following statements :				
(A) Indian constitution gurantees Fundamental Rights to its citizen					
	(B) Fundamental Right	ts are absolute and ne	ver suspended.		
	Which of the statemen	t/s given above is/are	correct ?		
	(1) Both (A) & (B)	(2) (A) only	(3) Neither (A) Nor (B)	(4) (B) only	
Ans.	(2)				
Sol.	Fundamental Rights a	re Relative and Not Ab	osolute		
66.	Observe the given 'Log	go' and answer the que	estion.		
	This 'Logo' represents	to :			
	 United Nation Educ United Nations Org United Nations Chi United Nations Hur 	cation, Scientific and C panisation Idren's Fund nan Rights Commisior	Provide the second		
Ans.	(4)				
		<u>B</u>	OLOGY		
67.	The Enzyme thrombok	inase released by			
_	(1) White blood cells	(2) Plasma	(3) Red blood cells	(4) Platelets	
Ans.	(4)				
Sol.	During the time of inj clotting factor	ury platelets will relea	ase thrombokinase enzym	e that helps in activating blood	
68.	Find out the renewable	e resource			
	(1) Petrol	(2) Natural gas	(3) Coal	(4) Water	
Ans.	(4)				
Sol.	Petrol, Natural gas ar	nd coal are fossil fuel	s so they are non renewa	able while water is a renewable	
	resource.				
69.	In animal kingdom, the	e first organism posses	sing back bones		
	(1) Reptiles	(2) Aves	(3) Fishes	(4) Amphibians	
Ans.	(3)				
Sol.	From the given organis	sms, fishes belongs to	the first class of vertebrate	es that is Pisces.	



70.	Match the item in column-I with Co	olumn-ll				
	Column-I		Column-II			
	A.Plants Excrete material		1. Tears			
	B. Animals Excrete material		2. Saliva			
	C. Plants secretion		3. Falling of leaves			
	D. Animals secretion		4. Gums			
	(A) A-4,B-2,C-1,D-3 (B) A-2,B	-1,C-3,D-4	(C) A-3,B-A,C-4,D-2	(D) A-1,B-3,C-2,D-4		
Ans.	(3)					
Sol.	Plants store excretory material in	their leaves so	they shed their leaves to	o excrete waste		
	Animals excrete waste product like urea, salts etc. through tears					
	Gums are the secretion of plants v	while animals s	secrete saliva			
71.	Nodes of Ranvier absent in					
	(1) Myelinated neurons		(2) Sensory neurons			
	(3) Motor neurons		(4) Non-myelinated neu	rons		
Ans.	(4)					
Sol.	Nodes of ranvier are the gap betw	veen myelin sł	neath so they are absent	in non-myelinated neurons		
72.	Parthenogenesis is					
	(1) Asexual reproduction		(2) Sexual reproduction			
	(3) Artificial propagation		(4) Natural propagation			
Ans.	(1)					
Sol.	Parthenogenesis is a type of asex	ual reproducti	on in which a a female g	amete or egg cell develops into		
	an individual without fertilization.					
73.	One of the following is not related	to Pea plant				
	(1) It is a biennial plant		(2) It prefers self fertilization	ation		
	(3) It ans well defined characters		(4) Presence of bisexua	I flowers.		
Ans.	(1)					
Sol.	Pea plant is an annual plant					
74.	One of the following digestive juic	es which conta	ains no enzymes			
	(1) Lipase (2) Trypsi	in	(3) Amylase	(4) Bile		
Ans.	(4)					
Sol.	Bile juice does not contain any	digestive enz	yme while lipase, tryps	in and amylase are digestive		
	enzymes.					
75.	If you think chest cavity is a room	int his the diap	bhragm may be			
	(1) Windows (2) Walls		(3) Roof	(4) Floor		
Ans.	(4)					
Sol.	Diaphragm forms the floor of ches	at cavity as it is	present at posterior part	t of chest cavity.		
76.	In a living cell the fluid present ins	ide the nucleu	s called as			
	(1) Nucleoplasm (2) Cytop	lasm	(3) Protoplasm	(4) Endoplasm		
Ans.	(1)					
Sol.	Nucleoplasm is the fluid present in	nside nucleus.				
77.	The scientific name of human is "Homo sapiens". In this the word "Sapiens" represents					
	(A) Family (B) Speci	es	(C) Genera	(4) Class		
Ans.	(2)					
Sol.	As per the binomial nomenclature Homo is the name of Genus while sapiens is the name of species.					



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78.	In human eye, the c	ornea formed from				
	(A) Iris	(B) Choroid	(C) Retina	(D) Sclera		
Ans.	(4)					
Sol.	The external layer	of eye ball is composed	d of sclera. The ante	rior portion of this layer is called the		
	cornea					
79.	The hormone "Ghre	elin" is secreted by				
	(1) Wall of the stom	ach (2) Wall of the intest	tine (3) Wall of the E	sophagus (4) Salivary glands		
Ans.	(1)					
Sol.	Gherelin is often ter	Gherelin is often termed as the hunger hormone produced by specialized cells that lines the stomach.				
80.	Ecological pyramids	was first introduced by				
	(1) Darwin	(2) Willian Elton	(3) Charles Eltor	n (4) Mendel		
Ans.	(3)			·		
Sol.	Ecological pyramids	was first introduced by	Charles Elton.			
81.	Which of the followi	ng are correct regarding	WTO ?			
	(i) It's main aim is to	liberalise international ti	rade.			
	(ii) It was starteda t	the initiative of the devel	oped countries.			
	(iii) The rules of WT	(iii) The rules of WTO are framed to favour the developing countries.				
	(iv) It establishes ru	les regarding internation	al trade.			
	(1) Only (ii) and (iii)	(2) Only (iii) and (iv)	(3) All of these	(4) Only (i),(ii) and (iv)		
Ans.	(4)					
Sol. World Trade Organisation (WTO) is one such organisation whose aim is to liberalise int			nose aim is to liberalise international			
	trade.Started at the	initiative of the develope	ed countries, WTO es	stablishes ruels regarding itnernational		
	trade, and sees that	these rules are obeyed.				
82.	Which of the followi	ng is not a feature of the	liberalisation ?			
	a. Businesses are a	llowed to make decisions	s freely about what th	ey wish to import or export.		
	b.Government remo	oves restrictions from fore	eign trade.			
	c. MNCs are allowe	d to work in the country.	•			
	d. It establishes rule	s regarding international	trade.			
	(1) Only a,b,c	(2) Only b,c	(3) All of these	(4) Only c,d		
Ans.	(2)					
Sol. With liberalisation of trade, businesses are allowed to make decisions freely about what the			cisions freely about what they wish to			
	import or export. The government imposes much less restrictions than before and is therefore said to					
	be more liberal.					
83.	Choose the wrong p	air given below.				
	(1) per capita incom	e US \$ 1,035 and above	low countries			
	(2) Per capita income- World Bank					
	(3) Per capita income US \$ 12,600 and above-rich countries.					
	(4) Human Develop	ment Index- UNDP				
Ans.	(1)					
Sol.	Countries with per o	apita income of US \$ 12	2,600 and above per	annum in 2012 are called high income		
	countries of rich co	untries .Those with per c	apita income of US \$	\$ 1,035 or less per annum in 2012 are		

called low income countries.

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In the rural areas, the unorganised sector mostly comprise of				
(iii) Street Vendors.				
(1) 25% of people are engaged in service sector (2) All the people who employed in service sector are earning high income				
(2) An the people who employed in service sector are earning high modifie (3) Service sector in India employs many different kinds of people				
(4)All service sector a activities are not growing equally well				
e WTO for				
'fairer rules'. It can also align with other developing countries with similar interests to fight against the				
ent				
monitorion				
(c) restering cooperation between nations in order to solve economic, social, cultural, or numanitation				



90.	30. Consider the following statements :			
	(A) In 1937 the Muslim League got only 4.4 percent of the total Muslim votes.			
	(B) In 1946 when elections were held again for the provincial and central assemblies, the Mus league succeeded in winning the Muslim seats decisively.			
(C) It was occurred by sensitive response of Congress Party with Muslims.				ns.
	Which of the statements given above are correct ?			
	(1) A,B & C	(2) A & C only	(3) B & C only	(D) A & B only
Ans.	(4)			
Sol. (a) In 1937 the Muslim League got only 4.4 percent of the total Muslim vote cast in the elections (b) In 1946, when elections were held against for the provincial and central assemblies, the			ote cast in the elections.	
			central assemblies, the League	
	succeeded in winning t	hat Muslim seats decisiv	vely.	_
	(c) The League Pointed	d out many issues and b	lamed Congress of Inser	nsitivity
91.	The following regional military and strategic alliances given below, is not related to U.S.A.			
	(1) WARSAW	(2) CENTO	(3) SEATO	(4) NATO
Ans.	(1)			
Sol.	WARSAW is related to	USSR		
92.	Match Column-I with C	olumn-II and select the	correct answer using the	codes given below the columns.
	Column - I		Column-II	
	(A) Bolsheviks		(1) Mussolini	
	(B) Mensheviks		(2) Hitler	
	(C) Nazism		(3) Lenin	
	(D) Fascism		(4) Kerensky	
	(1) A-2,B-4,C-3,D-1	(2) A-3,B-4,C-2,D-1	(3) A-2,B-2,C-3,D-4	(D) A-4,B-3,C-2,D-1
Ans.	(2)			
Sol.	Bolsheviks - Lenin			
	Mensheviks - Kerensky	1		
	Nazism - Hitler			
	Fascism - Mussolini			
93.	Which statement is inco	orrect with regard to "Te	bhaga" Movement?	
	(1) This movement abo	out to tenancy reforms		
	(2) This movement was led by Provincial Kissan Sabha			
	(3) Bigger Landlords participated in this movement			
	(4) This agitation was started in Bengal.			
Ans.	(3)			
Sol.	Bigger landlords did no	t participate inthe mover	ment.	
94. The "Zollverein" is known as				
	(1) Tax	(2) Customs Union	(3) Administrative Unio	n (4) Religious Union
Ans.	(2)			
Sol.	Zolleverein is a Customs Union			
95.	Arrange the following e	veents in correct chrono	logical order with regard	to Indian National Movement :
	(A) Quit India Movemer	nt	(B) Three member Cabinet Mission came to India	
	(C) Direct Action Day		(D) Cripps Mission can	ne to India
	(1) A,D,B,C	(2) A,B,C,D	(3) D,C,B,A	(4) D,A,B,C



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Ans.	(4)				
Sol.	Quit India Movement-August 1942				
	Three Members Cabinet Mission - March 1946				
	Direct Action Day - 16th August 1946				
	Cripps Mission - April 1942				
96.	In March 1945, the US President, Harry Truman, Said' 'we have emerged from this war as the most				
	powerful nation inthe world-the most powerful nation, perhaps, perhaps, in all history".				
	This is not reason for this statement.				
	(1) Infact the Second World War helped USA grow out of its economic misery caused by the Great				
	Depression.				
	(2) Far from the theatres of war, the industries and agriculture of USA prospered.				
	(3) This ensured full employment and high productivity in US during the Second World War.				
	(4) Only villages of USA had been completely destroyed.				
Ans.	(4)				
Sol.	There is no reference of the village being destroyed by the USA.				
97.	The French were keen to develop Vietnam as an exporter of Rice. For this purpose they did not adopt				
	this strategy.				
	(1) Encouraging landlords.				
	(2) Improving irrigation network				
	(3) Taken up of land reforms.				
	(4) Facilitating marketing of agricultural produc	e like rice & rubber			
Ans.	(3)				
Sol.	up land reform measures.				
98.	Match column-I with column-II and select the c	correct answer using the codes given below the columns.			
	Column-I	Column-II			
	(A) Spain	(1) Mexico			
	(B) Belgium	(2) Congo			
	(C) Portugal	(3) Brazil			
	(D) Britain	(4) Nigeria			
	(1) A-3,B-1,C-2,D-4 (2) A-2,B-3,C-1,D-4	(3) A-4,B-3,C-2,D-1 (4) A-1,B-2,C-3,D-4			
Ans.	(4)				
Sol.	Sapain- Mexico				
	Belgium - Congo				
00	Portugal - Brazil				
99.	Eric Hobsbawm, a historian, called the 20th century "the age of extremes". This is not the reason for				
	that statement.				
	(1) Great Depression	(2) Occurred two world wars			
٨٥٥		(4) Established colonies			
AIIS.	(4) The colonics were not established				
SUI.	The colonies were not established				
AUS.4	The colonies were not established				
Sol. Ans.4 Sol.	The colonies were not established				



100.	Arrange the following events in chronological order regard to Germany.				
	(i) Proclamation of the Weimar Republic		(ii) Hitler becomes Chancellor of Germany		
	(iii) Germany invades Poland		(iv) Germany invades the USSR		
	(1) ii, i, iii,iv	(2) i,iii,ii,iv	(3) iv,iii,ii,i	(4) i,ii,iii,i∨	
Ans.	(4)				
Sol. Proclamation of Weimer - 1918					
	Hitler became Chancellor -1933				
Germany invaded poland - 1939					
	Germany invaded	I USSR - 1941			



