NEWGEN SEARCH OLYMPIAD TALENT TEST

NEWGEN SCHOLARS - THE SCIENCE OLYMPIAD

Clas Nan	ss: 7 ne:				Time:90mins
I.	Choose the correct answe	rs: MA	ГНЕМ	IATICS	
1.	Value of product $\frac{6}{5} \times \frac{7}{11} = \dots$				
	(A) $\frac{42}{66}$	(B) $\frac{42}{55}$		$(C)\frac{66}{35}$	(D) None
2.	Write L.H.S. for following e	equation 14	=27 - y		D)27
3.	(A)14 ax(b+c) = axb + axc is called (A) Commutative property	(B)27-y d (B)Asso	ciativep	(C) y property	(D)27
	(C) Distributive Property	(D) Clos	sure pro	perty	
4.	$\frac{1}{14} - \frac{2}{7}$ is equal to				
	(A) $\frac{3}{14}$	$(B) \frac{-3}{14}$		$(C)\frac{14}{3}$	(D) $\frac{1}{3}$
5.	$0.01 \text{ x } 1000 \text{ is equal to } \dots$	(B) 0 1		(C) 0.01	(D) 10
6.	In complementary angles, su	m of angles	will be .		(D) 10
	(A) 180	(B) 210		(C) 360	(D) 90
7.	5 paise is equal to				
	$(A)\frac{1}{20}$	$(B)\frac{1}{30}$		$(C)\frac{1}{40}$	(D) $\frac{1}{50}$
8.	A coin is tossed. What is the	probability	of getti	ng head ?	
	(A) 0	(B) 1		$(C)\frac{1}{2}$	(D) 1
9. A die is thrown. What is the probability of getting 6?					
	(A) 0	$(B)\frac{1}{6}$		(C) $\frac{1}{2}$	(D) 1
10. The mean of the numbers $10, 20, 30, and 40$ is					
1	(A) 20 1. The solution of the equation	$(B)_{\frac{z}{22}=\frac{3}{4}}$		(C) 30	(D) 50
	$(A)\frac{1}{2}$	$(B)\frac{3}{2}$		$(C)\frac{1}{4}$	(D) $\frac{3}{4}$
12.	The solution of $\frac{3m}{7} = 6$ is				
	(A) 6	(B) 7		(C) 14	(D) 3
13. The solution of the equation $-4(2+x)=4$					
	(A) -1	(B) -2	1	(C)-3	(D) -4

14.	The measure of the angle whice $(A) 30^{\circ}$	ch is equal to its com (B)60°	plement is (C)45°	(D) 90	
15.	What is the measure of the con	mplement of angle 9	90°?		
	(A) 90-	(B)0°	(C) 180°	(D) 45°	
16.	In the proportion $a:b = c:d$, a and d will be				
	(A) 180	(B) Extremes	(C) Mean	(D) mode	
17.	SP = MP				
10	(A) Sales price	(B) Cost price	(C) Discount	(D) None	
18.	(A) 1	(B) 2	(C) 3	(D) 6	
19.	Median of data 48, 48, 15, 2	$(2)^2$ 0, 28, 17, 14 and 11	.0 is		
	(A) 23	(B) 24	(C) 25	(D) 26	
20.	Find the angle x in the adjacen (A) 450	t figure :	A		
	(A) 45° (B) 40°		x		
	$(C) 35^{\circ}$				
	(D) 50°				
	(D) 50				
		550			
21.	If $\triangle ABC \cong \triangle PQR$, Then \overline{BC}	corresponds to			
	$(A)\overline{PO}$	(B) \overline{OR}	(C) \overline{RP}	(D) None of these	
22.	Who is famous for his "Theor	v of Estimation"	< <i>/</i>	× /	
	(A) Dr C R Rao	(B) C V Raman	(C)Fulid	(D) None	
23	Which is unlike term	(2) 011114	(0)2010		
23.	(A) $7a^2$ and $14a^2$	$(\mathbf{P})7\mathbf{b}^2$ and $\mathbf{b}^2\mathbf{v}7$	(C) $10xyz$ and $27x^2$	(\mathbf{D}) 57 ² and 157 ²	
24	(A) $7a$ and $14a$ The metics of D_{2} , 10.45 , 50 motion		(C) 19XyZ and 27X	yz D) SZ and 1SZ	
24.	The ratio of Rs. 10 to 50 paise	e 18			
	(A) 20:1	(B) 10:1	(C) 5:1	(D) 1:20	
25	1				
25.	$\frac{-}{8}$ as percent is				
	(A) 25%	(B) $12\frac{1}{2}\%$	(C) 20%	(D) 16%	
		2			
26. The price of petrol has risen from Rs. 48 to Rs. 52 a litre .					
	By what percent has the price risen up?				
	(A) $\frac{25}{3}$ % or 8.33%	(B) 25%	(C) 4%	(D) 40%	
27	The denominator of rational m	umber — is			
_,.		-3			
	(A) 5	(B) -3 2	(C) 3	(D) 8	

28.	If $\frac{4}{5} = \frac{12}{?}$, then ? =					
	(A) 5	(B) 10	(C) 15	(D) 25		
29.	Which of the following is com	rect?				
	(A) $\frac{1}{-2} > \frac{-1}{3}$	(B) $\frac{1}{-2} < \frac{-1}{3}$	$(C)\frac{1}{-2} = \frac{-1}{3}$	(D) None of these		
30.	The sum $\frac{3}{4} + \left(\frac{-23}{4}\right) =$					
	(A) -5	(B) 5	(C) 4	(D) -4		
31.	$\frac{7}{12} \div \left(-\frac{7}{12}\right) =$					
	$(A)\frac{-49}{144}(B)-1$	(C) +1	(D) -7			
32.	Perimeter of rectangle					
	(A) 4 x side	(B) 2 x (l+b)	(C) l x b	(D) side x side		
33.	value of $x^{-7} \times \frac{1}{x}$					
	(A) X ⁻⁸	(B) X ⁹	(C) X ⁻⁹	$(D) X^6$		
34.	this nets related to					
	(A) Cube	(B) Cylinder	(C) square	(D) None1		
35.	Add : $3x^2$ $9x^2$. $32x^2$	(_, _, _,	(-)-1	(=)=:====		
	(A) $27x^2$	(B) $26x^2$	(C) $20x^2$	(D) $28x^2$		
36.	Area of circle					
	(A) 2 <i>f</i> r	(B) $f r^2$	(C) lxb	(D) side x side		
37.	Subtract -xy from xy					
	(A) xy	(B) 0	(C) 2xy	(D) 4xy		
38.	Find the value of the expression $100 - 10x^3$ for x=0.					
	(A) 10	(B) -10	(C) 100	(D) -100		
39.	What is the coefficient of y^2 in the expression $3y^2+4x$.					
	(A) 1	(B) 2	(C)3	(D) 4		
40.	If the value of expression x^2-5x+k for $x=0$ is 5, then the value of K is					
	(A) 2	(B) 3	(C) 4	(D) 5		
41.	The value of $(-2)^4$ is					
	(A) 8	(B)-8	(C) 16	(D) -16		
42.	(-) even number =					
	(A) -1	(B) 1	(C) 0	(D) None of these		
43.	0 x 10 ⁴	3				
	(A) 0	$(B)10^4$	(C) 1	(D) None of these		

44.	The exponential form of 125 is			
	(A) 5 ⁴	(B) 5^3	(C) 5^2	(D) None of these
45.	333 is standard form is			
	(A) 3.33×10^2	(B) 3.33×10^3	(C) 3.33×10^{1}	(D) 3.33×10^4
46.	100000000000 in standard fe	orm is		
	(A) 1×10^{-10}	(B) $1x10^{11}$	(C) $1x10^{-9}$	(D) $1x10^{12}$
47.	$(ab)^m =$			
10	(A) $a^m b^m$	(B) $a^m b$	(C) ab^m	(D) ab
48.	$(2^{\circ} + 3^{\circ}) \times 4^{\circ} =$		$\langle \mathbf{G} \rangle$ 2	
	(A) 1	(B) 2	(C) 3	(D)4
49	$\left(\frac{a}{2}\right) \times a^{3} =$			
17.	$\left(a^{2}\right)_{4}$			
	(A) a ⁻	(B) a^{5}	(C) a^{6}	(D) a^{8}
50.	$(-2a)^3$			
	$(A) 2a^{3}$	$(B)8a^{3}$	$(C) - 8a^3$	(D)59 ³
		CENEDAL SC		
51	An example of aphysical chan	oe is		
51.	A) Magnetisation of iron	B)		
	C) Photosynthesis by plants	D) Digestion of for	bc	
52.	are lungs of earths	D)Digestion of for		
	A) People	B)Animals	C) Forests	D) Birds
53.	Forests help to control	,	,	,
	A) Population	B) Pollution	C) Soil erosion	D) None
54.	Which of the following soil has	s maximum water ho	olding Capacity	
	A) Sandy	B) Clayly	C) Loamy	D) All of these
55.	Dead and decayed residue of p	lants and animals is	scalled	
	A) Clay	B) Sand	C) Silt	D) Humur
56.	March 22 is the worldda	ly		
	A) Forest	B) Children	C) Peace	D) Water
57.	Seed dispersal is essential for s	survival of		
	A)Animals	B) Plants	C) Birds	D) None
58.	Xanthium and Urena are dispe	erse their seeds by	-	
-	A) Birds and animals	B) Water	C)Air	D) None
59.	Seeds of cotton, caltropis and t	truits of sunflower l	nave	
(0	A) Skin	B) Hooks	C) Hair	D) Thorns
60.	The pollen grains are found in		C O m^{1}	D) A rath or
<i>c</i> 1	A) Sugma	B) Ovary	C) Ovule	D)Anther
01.	A) Pollon tube	D Dollon grain	-	D) Zugoto
67	A) Foliell tube	b) Follell glalli h leaves occurs in	C)Ovule	D) Zygole
02.	A) Begonia	B) Ginger	C) Hibiscus	D) Rose
63	Roots respire through	D) Olliger	C) moiseus	D) Rose
05.	A) Spiracles	B) Airspaces	C) Lenticles	D) Stomata
64	Which of the following animal	s breathe through the	eir skin and lungs?	D) Stollada
0.11	A) Fish	B) Earthwarm	C) Frog	D) Snake
65.	The process which involves th	e exchange of gases	s is called	_) ~~~~~~
	A) Circulation	B)Breathing	C) Digestion	D) Respiration
66.	Heterotrophic nutrition is obse	rved in	, <u>c</u>	~ 1
	A) Fungi	B) Hibiscus _{4}	C) Cuscuta	D) Aloevera
67.	Raw materials involved in the	process of photosyn	theise	
	A) Water	B) Sunlight	C) Carbon dioxide	D)All of them

68.	Plants get water from the soil t	hrough their		
	A) Stem	B) Roots	C) Leaves	D) None
69.	Starch can be tested with	solution		
	A) Lime water	B) Iodine	C) Nitrogen	D) Zinc
70.	The relation between angle of	incidence and angle	of reflection is	
	A) $\angle i = \angle x$	B) $\angle i \neq \angle x$	C) $\sin i = \sin r$	D) None of these
71.	Clear images of objects canno	ot be produced by _		
	A) Rough surface	B) Plane surface	C) Conved surfaces	D) Concave surfaces
72.	Cyclones are caused due to dif	fference in		
	A) Pressure	B) Heat	C) Force	D) None
73.	Land and sea breeze occur du	ie to		
	A) Convection	B) Radiation	C) Conduction	D) None
74.	Powder used in varrom board	d for		
	(A) Increasing friction	(B) decreasing fric	ction (C) decoration	(D) fragrance
75.	Dry cell converts chemical ene	ergy into		-
	A) Heat energy	B) Light energy	C) Sound energy	D) Electric energy
76.	liquid is used in six's maxim	num minimum therr	nometer	
	A)Alcohol	B) Water	C) Mercury	D)Acid
77.	In which region is the rainfall r	elatively less for the	e past two decades	
	A) Telangana	B) Rayalaseema	C) Andhra Pradesh	D) None
78.	When we rub the soap nut see	d on a stone, which	energy is converted i	nto heat energy
	A) Mechanical	B) Chemical	C) Magnetic	D) Sound
79.	Degree of hotness or coldness	s of a body is measu	ired by	
	A) Thermometer	B) Barometer	C) Balance	D) Micrometer
80.	Ball rolling on the surface of a	table is an example	of	
	A) Translatiory motion		B) Rotatory motion	
	C) Both rotatory and translato	ry	D) Curvilinear motion	n
81.	Movement of hands of a clock	k is an example of _		
	A) Rotatory motion		B) Oscillatory motion	1
	C) Curvilinear motion		D) Rectilinear motion	1
82.	The process of cutting fleece fi	rom sheep is called		
	A) Combing	B) Shearing	C) Cleaning	D) Dycing
83.	The biggest seed growing cent	tre is located at		
	A)Ananthapur	B) Harsely hills	C) Nalgonda	D) Hyderabad
84.	When methyl orange is mixed	with lemon juice it	turns to	
	A) Red	B) Pink	C) Blue	D) Green
85.	Which of the following is acidi	ic in nature?		
	A)Antacid	B) Lime water	C) Lemon juice	D) Baking soda
86.	The component of food that pr	revents constipatior	1	
	A) Roughages	B) Carbohydrates	C) Fats	D) Water
87.	Our daily diet should include p	olenty of		
	A) Fats	B) Proteins	C) Carbohydrates	D) Vitamins
88.	An example of a periodic cha	ange is		
	A) Swinging of clock pendulu	um	B) Sneezing	
~ ~	C) Landslides during rain	ns	D) Rusting of iron	
89.	Which is not a forest product	t among all	C) 1	5.0
00	A) Plywood	B) Matchstick	C) Kerosene	D) Soapnut
90.	Upper layers of soil are mad	e up of		
	A) Leaf litter and humus $(x) = 1$	B) Rock	ζ <u>s</u>	
	() Cond		a	

91. _____kills harmful disease causing organisms present inwaste water

	A) Zinc	B) Magnesium	C) Chlorine	D) None		
92.	Seeds of lotus disperse	ed by				
	A)Air	B) Water	C) Insects	D) None		
93.	Vegetative propagation	through leaves occurs i	n			
	A) Begonia	B) Ginger	C) Rose	D) Hibiscus		
94.	The respiratory organs	in cockroach are	_			
	A) Lungs	B) Spiracles	C) Gills	D) Lenticles		
95.	Cuscuta is an example	of				
	A) Symbiont	B) Parastie	C) AutotrophD) Sapro	phytc		
96.	We can make "A Garde	en in box" using the phe	using the phenomenon of			
	A) Refraction	B) Diffraction	C) Reflection	D) None		
97.	1 Kilo watt is equal to					
	A) 10 W	B) 100 W	C) 1000 W	D) 500 W		
98.	Upper fixed point of a t	thermometer in celsius s	cale is			
	A) 1000C	B) 00C	C) 340C	D) 250C		
99.	The law of inertia is proposed by					
	A) Newton	B) Einstein	C) Galelio	D) None		
100.	Pascal is the unit of					
	A) Thrust	B) Force	C) Pressureq	D) Weight		