GURUKUL COLLEGE

Entrance Model Questions-2080

Science

			Science	2			
	Full marks: 100						Time: 2:00hours
1.	My mother advised me						
	a. don't have	b.		c.	never have	d.	not to had
2.	The painter the room.	It is s	till wet.				
	a. painted	b.	was painted	c.	has painted	d.	paints
3.	The administrator was accused		corruption.				
	a. from	b.	with	c.	for	d.	of
4.	I'd never come back	?					
	a. did I	b.	had I	c.	Would I	d.	wouldn't I
5.	The adjective of "Child " is:						
	a. children	b.	childness	c.	childless	d.	childish
6.	his negligence, he got	succe	ess.				
	a. Through	b.	Because	c.	In spite of	d.	In spite
7.	Ram asked me who						
	a. I was	b.	was I	c.	are you	d.	you are
8.	The word "Nationality" is:						
	a. Pronoun	b.	Adjective	c.	Adverb	d.	Noun
9.	The positive of "Students didn't	t have	e any book is:				
	a. Students did have some boo	ks		b.	Students had some books		
	c. Students had any books			d.	Students have some books	6	
10.	I have not met my father	las	t Sunday.				
	a. from	b.	since	c.	on	d.	for
11.	I simply lovemusic ar	nd da	ncing.				
	a. nothing	b.	an	c.	the	d.	а
12.	He ran the street and en	terec	I a taxi waiting on the o	ther	side.		
	a. along	b.	across	c.	past	d.	towards
13.	He wears goggle as he is	one	e-eyed person.				
	a. a	b.	an	c.	the	d.	none
14.	The projectby the en		-				
	a. will have been completed	b.	will be completing	C.	will have completed	d.	will complete
15.	My sister lives in London						
	a. so is mine		so does mine	c.	so do I	d.	so is I
16.	Let them eat what they like,						
	a. will we	b.	shall we	c.	will you	d.	do you
17.	Have you any idea?						
	a. What is his name		hat his name is	c.	what name is he	d.	what name he is
18.	My friend prefers coffee	tea.					
	a. from	b.	to	c.	than	d.	but
19.	'emancipation' nearly means						
	a. captivation	b.	generalization		liberation	d.	operation
20.	If heproperly, he would			•			
	a. manage	b.	manages	c.	managed	d.	had managed
21.	The father of botany is						
	a. Aristotle	b.	Theophrastus	c.	Darwin	d.	Linnaeus
22.	Binomial nomenclature of any						
	a. Phylum and class	b.	Class and order	c.	Order and genus	d.	Genus and species
23.	Interaction of plants and anima						
	a. Ecology	b.	Limnology	c.	Environmentology	d.	Physiology
24.	The five-kingdom classification		-				
	a. Linnaeus	b.	Whittaker	c.	Leeuwenhoek	d.	John Ray
25.	Ferns belongs to						
	a. Bryophytes	b.	Pteriodophytes		Gymnosperm	d.	Angiosperm
26.	If one of helix of DNA the base	-					
	a. Adenine	b.	Guanine	C.	Thymine	d.	Uracil

27	Amoeba is an example of euka	rvoti	c cell hecause it has				
۷,	a. Nuclear membrane	b.		_	Contractile Vacuole	٨	Plasma membrane
20	How many a cells will be produ					u.	riasilia illellibi alle
20.		b.		-		لہ	C 4
20	a. 12		24	C.	32	u.	64
29.	Which of the following is the si		·				
	a. DNA	b.		C.	Ribosome	d.	Chloroplasts
30.	The ecological food chain cann		-				
	a. Producers	b.		c.	Decomposer	d.	Consumers
31.	Which of the following is physi	cal b	asis of life?				
	a. Nucleus	b.	Chromosome	c.	Protoplasm	d.	Mitochondria
32.	RBC's are formed in						
	a. Bone marrow	b.	Liver	c.	Kidney	d.	Spleen
33.	The Locomotory organ of para	meci	um is				
	a. Setae	b.	Flagella	c.	Pseudopodia	d.	Cilia
34.	Animals store carbohydrates a	'n			•		
	a. Starch	b.	Glycogen	c.	Glucose	d.	All above
35.	Which vitamin is necessary for			and	teeth?		
	a. Vitamin-A	b.	Vitamin-D		Vitamin-C	d.	ALL
36	Silk is associated with			٠.		•	
50.	a. Sericulture	b.	Apiculture	r	Pisciculture	Ч	Lac Culture
37	Total number of bones in man		ripicalitai	٠.	1 isciedital c	u.	Lac cartare
57.	a. 260	b.	306	_	360	Ч	206
20	What is the name of Corona Vi		300	C.	300	u.	200
56.	a. Retro Virus	b.	SARS-COV-2	_	Covid Virus	٨	HIV Virus
20				C.	Covid virus	u.	HIV VIIUS
39.	Which is the second most intel	_			Dalahin	_1	Lauia
40	a. Whale	b.	Lemus	C.	Dolphin	a.	Loris
40.	Which one of the following has				6 13		
	a. Frog	b.	Snake	C.	Crocodile	a.	Lizard
41.	The process of bending of light						
	a. reflection	b	•		refraction	d.	interference
42.	What is the value of acceleration	on du	ue to gravity at the cent	re o	t earth?		
	a. g	b.	0	c.	a	d.	∞
43.	A body of mass 4 kg is moving	with	a velocity 144Km/hr on	sm	ooth surface. If it is brough	t to	be rest in 40 sec. the
	force to be applied is						
	a. 4N	b.	8N	c.	2N	d.	1N
44.	If the momentum of the body i	ncre	ased by 100% then it's I	K.E.	becomes		
	a. 2 times	b.	4 times	c.	½ times	d.	¼ times
45.	If the applied force and displac	eme	nt are mutually perpend	dicu	lar the work done is,		
	a. 0	b.	maximum	c.	infinite	d.	none
46.	How much heat is required to	chan	ge temperature of 1gm	of v	vater by 1°C?		
	a. 10cal	b.	4200cal		100cal	d.	1 cal
47.	Which of the following has the	high					
	a. Oxygen	b.	copper	c.	Silver	d.	hydrogen
48.	Which element is formed durir	ng nu	• •				, 0
	a. Deuterium	b.	Tritium		Helium	d.	all of them
49	Two resistors of resistance x Ω	<i>R</i> 1					
13.	a. $(x+y)\Omega$	ь. b.					
	. , ,		` ,,==	C.	xy Ω	u.	$\left(\frac{xy}{x+y}\right)\Omega$
50.	Transformer works under the p	princi	iple of				
	a. mutual induction	b.	motor effect		Both a and b		None
51.	The weight of body in air is 10N	اdis ا	placed 2N when emerge	ed ir	nto water. The mass of bod	y in	water is
	a. 8 kg	b.	0.8 kg	b.	8N	d.	0.8 N
52.	The SI unit of thrust is						
	a. N/s	b.	Nm	c.	N	d.	K
53.	Rainbow occurs due to						
	a. Reflection	b.	refraction	c.	TIR	d.	dispersion
54.	For normal incidence, the angle	e of o	deviation is				-
	a. 0^0		90 ⁰	_	45°d.	Ч	180 ⁰

55.	The power of diverging lens is 21	D th	en the focal length of le	ens i	is		
			100 cm		-50cm	d.	-10cm
56.	A body at rest may have						
	a. Energy	b.	momentum	c.	speed	d.	velocity
57.	Which of the following is conste	llati	on?				
	a. titan	b.	vesta	c.	orion	d.	enka
58.	Fleming's right hand rule is used	to f	find the direction of				
	a. Alternating Current	b.	direct current	c.	Actual current	d.	induced current
59.	What is the unit of intensity of se	oun	d?				
			decibel		diopter	d.	horse power
60.	A force F is applied on an object		·				_
		b.	F/v	c.	F^2v	d.	Fv ²
61.	What is the value of $\sqrt{(25\%)}$?						
		b.	5%	c.	25 %	d.	12.5%
62.	If $23x + 2y = 7$ and $22y + 3x = -13$, wh	at is the value of $(x - \frac{1}{2})$	$y)^{2}$?		
	a. $\frac{1}{2}$	b.	4	c.	1	d.	10
63.	What is the equation of pair line	s ne	ernendicular to the line	s re	presented by $4x^2 - 7xy +$	- 5ν	$^2 = 0$ and passes
00.	through the origin?	.5 pc	in perior color to the line	٠. د	presented by 120 730y 1	J	o arra passes
	a. $5x^2 - 7xy + 4y^2 = 0$	h.	$4x^2 + 7xy + 5y^2 = 0$	C.	$5x^2 + 7xy + 4y^2 = 0$	d.	none of them
64.	What is the value of $1^3 + 2$.	
•					101010	d.	105050
65.	Which of the following is a ration						
		b.	_	c.	Δ	d.	π
			·	C.	C	u.	n.
66	If $4a^2 + \frac{1}{4a^2} = 2$, what is the va	due	of $\frac{4a^2-1}{2}$?				
00.	$4a^2$	iiuc	2a				
	a. 4	b.	0	c.	2	d.	6
67.	If a sphere is halved, total surfac	ce of	one piece is?				
	a. 50% of sphere	b.	75% of sphere	c.	100% of sphere	d.	none of them
			•		·		
68	Evaluate $\sqrt{6 + \sqrt{7 + \sqrt{1 + \sqrt{9}}}}$						
00.	Evaluate 10 1 17 1 VI 1 V3						
a.			3	_	15	٨	2
	4 k	b.	9	C.		u.	
69.	4 If 30% passed in maths and scien	b. nce,	% 65 passed in science	and	d 10% failed in maths and s	u. scier	nce, How many are
69.	4	b. nce,	% 65 passed in science	and	d 10% failed in maths and s	cier	nce, How many are
	If 30% passed in maths and scientailed in science only? a. 35 %	b.	25%		d 10% failed in maths and s		nce, How many are
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70.	If 30% passed in maths and scientialled in science only? a. 35 % If $\cos A = \frac{x^2 - y^2}{x^2 + y^2}$, then find the	b. valu b.	25% ue of tanA $\frac{x^2 - y^2}{2xy}$	c.	$\frac{2xy}{x^2 + y^2}$	d.	$\frac{2xy}{x^2 - y^2}$
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70. 71.	If 30% passed in maths and scientialled in science only? a. 35 % If $\cos A = \frac{x^2 - y^2}{x^2 + y^2}$, then find the a. $\frac{x^2 + y^2}{2xy}$ There are 1 yellow, 2 blue and 3 replacement, what is the probable a. $\frac{1}{x^2}$	b. e valu b. gree	25% ue of tanA $\frac{x^2 - y^2}{2xy}$ en balls in a bag. If two y of getting an yellow a	c. c. bal	15% $\frac{2xy}{x^2 + y^2}$ Is are drawn one after another agreen ball?	d. d. ther	$\frac{2xy}{x^2 - y^2}$
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77.	A cyclist rides 25000 cm in 1 mi	inute	. Find his speed in km/l	٦r.			
	a. 15km/hr	b.	18km/hr	c.	20km/hr	d.	36km/hr
78.	If p+q+r=0, then $p^3+q^3+r^3$ equal	ls to:					
	a. pq+qr+rp	b.	pqr	c.	0	d.	3pqr
79.	What is the radius of a circle if	7cm	long arc subtend 1 radi	an a	ngle at the centre?		
	a. 14cm	b.	7cm	c.	10cm	d.	21cm
80.	If AM and GM of two numbers	are 1	.0 and 8 respectively, th	nen i	the numbers are		
	a. 14 and 6	b.	16 and 4	c.	18 and 2	d.	15 and 5
81.	Number of molecules preser	nt in	1.8 gm water is				
	a. 6.023×10^{22}	b.	6.023×10^{23}	c.	6.023×10^{21}	d.	3.0115×10^{23}
82.	Which of the following is the	ore	of iron?				
	a. Haematite	b.	Magnetite	c.	Silver glance	d.	Both a and b
83.	The reactivity of an element	s de	pends on				
	a. Size of atom	b.	valence electron	c.	both of them	d.	none of them
84.	Oxidation number of Cr in K ₂	Cr ₂ C) ₇ is				
	a. 0	b.	+6	c.	+3	d.	+7
85.	First organic compound synt	hesi	zed in lab from its cor	ıstit	uents' elements is		
	a. CH₃COOH	b.	NH ₄ CNO	c.	NH ₂ CONH ₂	d.	CH ₄
86.	Aqueous solution of Na ₂ CO ₃	is all	kaline in nature while	an	aqueous solution of FeCl	3 is	
	a. Neutral	b.	Basic	c.	Cannot be predicted	d.	Acidic
87.	When burning magnesium ir	ntroc	luce in atmosphere o	f cai	rbon dioxide		
	a. It extinguished		·		Continues burning relea	sin	g oxygen
	c. Continues burning releasi	ng c	arbon		Continues burning with		
88.	Presence of urea in drinking	_			_		•
	a. Gigantism in child		Dwarfism in child	c.	Sterility in child	d.	All of above
89.	Which of the following is rev	ersil	ole reaction?		,		
	a. Formation of ammonia fr			n b.	Decomposition of potas	siu	m chlorate
	c. Decomposition of hydrog				None of the above		
90.	Which of the following is the	-					
	a. $_{6}C^{12}$ & $_{6}C^{14}$	-	$_{17}Cl^{35}$ & $_{17}Cl^{37}$	c.	$_{1}H^{1} \& _{1}H^{2}$	d.	all of above
91.	First period of modern perio	dic t	able has only two ele	mer	nts because		
	a. It is the shortest period.					s d.	none of above
92.	Brass is an alloy of						
	a. Cu + Zn	b.	Cu + Zn + Ni	c.	Zn + Sn	d.	Cu + Sn + Zn
93.	IUPAC name of glycerol is						
	a. Propane-1,2,3-diol	b.	Propane-1,2,3-triol	c.	Propanol	d.	Ethane-1,2-diol
94.	Which of the following oxide		•		- 1		,
	a. Cobalt Oxide	b.			Ferric Oxide	d.	Copper Oxide
95.	The expanded molecular for	mula	of isobutane is				
			$H_3CH(CH_3)CH_3$	c.	C_4H_8	d.	All of above
96.	The correct order of reactivity		3(3)3		-40		
	a. F > Cl > Br > I	-	I > Br > Cl > F	C.	I > Cl > Br > F	d.	None of above
97.	Magnesium ribbon burnt in						
•	a. magnesium oxide		Nitrogen dioxide		Magnesium nitride	d.	Magnesium nitrat
98.	Which of the following metal can displace hydrogen from dilute nitric acid?						
	a. Magnesium		Manganese		Cobalt	d.	Both a and b
99.	Which of the following oxide		_				
	a. PbO	b.		C.	Na₂O	d.	Both a and b
100	.Mass of calcium oxide forme						
		-	140 gm	_	56 gm	Ч	None of above