Model Question

Entrance Examination

me:						
1.	What is the life spa	an of an adult 'Bombyx 1	mori' ?			
	a) 2 days	b) 3-6 days	c) 6 days	d) 8 days		
2.	Which of the follow	wing is formed when ca	rbon dioxide gas is bi	ubbled into lime water?		
	a) Ca(HCO ₃) ₂	b) H ₂ CO ₃	c) CaSO ₄	d) CaCO ₃		
3.	It is very cold toda	y and				
	a) it's snowing	b) it snows	c) its snowing	d) it snowing		
4.	If $n(U) = 150$, $n(A)$	= 60, n(B) = 80 and n(A	\cup B) = 110 then n _O (A) is		
	a) 30	b) 40	c) 50	d) 70		
5.	The unit of Univer	sal gravitational constar	nt is			
	a) Nm ⁻² Kg ⁻²	b) Nm²Kg²²	c) Nm ⁻² S ⁻²	d) Kgm²S-²		
6.	The honey bee is o	f greatest use to mankin	d as:			
	a) It is of medicin	al benefits	c) Helps in cross-pollination			
	b) We get honey f	from them	d) scientific study			
7.	Word "Prop" repre	esents				
	a) primary suffix	b) secondary suffix	c) word root	d) prefix		
8.	In \triangle ABC, AB = 14	cm, BC = 15 cm and CA	A = 13 cm then area of	ΔABC is		
	a) 21 cm ²	b) 42 cm^2	c) 63 cm ²	d) 84cm ²		
9.	Which one of the fe	ollowing is vector quant	tity?			
	a) Mass	b) Energy	c) Force	d) Density		
10.	Nissle's granules a	re found in				
	a) Erythrocytes	b) Leucocytes	c) Neuron	d) Nephrone		
11.	According to Lewi	s concept "BF ₃ " is				
	a) acid	b) base	c) salt	d) indicator		
12.	I cannot see you to	morrowlunc	h with Mohan.			
	a) I'm having	b) I'll have	c) I'm going have	d) I'll to have		
13.	The diameter of th volume of it?	e circular base of a solid	cylindrical rod is 2.8	cm and it is 50 cm long. what is the		
	a) 240	b) 308	c) 400	d) 500		
14.	When a loaded boa	at enters into the sea fro	m a river, it rises beca	ause		
	a) There is more y	water in the sea than the	e river c) Se	ea water is denser than the river		

- b) There is difference of temperature
- d) Sea is deeper than river

15. Ammonia gas can be collected in the gas jar by

- a) upward displacement of air
- b) upward displacement of water

- c) downward displacement of air
- d) downward displacement of water.

16.	This	amongst	the	following	is a	wrong	match
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Option		
А	Columnae cornae	Auricle of heart
В	Endocrine part of brain	Hypothalamus
С	Bone marrow	hematopoietic organ
D	Corpus callosum	brain

17. They bought

- a) in the country a big old house
- b) an old big house in the country
- c) a big old house in the countryd) in the country an old big house
- 18. If $\sqrt{x+4} = x 2$ then value's of x be

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19. Which of the following statement is correct?

- a) Acceleration due to gravity increases with increase in depth
- b) Acceleration due to gravity increase with increase in altitude
- c) Acceleration due to gravity is maximum at the centre of earth
- d) Acceleration due to gravity vanishes at the centre of earth

20. Glucagon

- a) accelerates protein synthesis within cells
- b) accelerates conversion of glycogen into glucose
- c) decreases conversion of glycogen into glucose
- d) slows down glucose formation from lactic acid

21. What type of reaction takes when electricity is passed through water?

lisplacement
6
ange in its
5 a

- 25. Which of the following statements hold true for fossilization?
 - a) Only small animals are more likely to become fossils
 - b) Fossilization is more likely to occur on mountains rather than forests
 - c) Every organism that dies becomes a fossil.
 - d) It is the process of formation of fossils.

26.	An	example of oxide	ore is						
	a)	Bauxite	b) Cinnabar	c) Calamine	d) Galena				
27.	Wł	What is her job?- She'slecturer.							
	a)	an university	b) a university	c) one university	d) university				
28.	A v alti	woman is 1.6 m tal itude of the sun?	l and the length of her	shadow in the sun is 1	6 $\sqrt{3}$ m. What is the				
	a)	15°	b) 30°	c) 45°	d) 60°				
29.	An	object with a cons	stant speed						
	a)	Is not accelerated	1	c) Is always a	ccelerated				
	b)	Might be accelera	ited	d) Also has a	constant velocity				
	,	0		,	,				
30.	Wł	nich of the followi	ng is called the seconda	ary air pollutant?					
	a)	PANs	b) Ozone	c) Carbon monoxide	d) Nitrogen Dioxide				
31.	Th	e molecular formu	la of green vitriol is						
	a)	CuSO ₄ .5H ₂ O	b) CaSO ₄ .2H ₂ O	c) MgSO ₄ .7H ₂ O	d) FeSO ₄ .7H ₂ O				
32.	I d	on't know	near here to have lu	nch.					
	a)	anything	b) something	c) anywhere	d) something				
22	A 4	formed of 12 NL airroa	an abiast an accolorati	$an of m/a^2$ The form	required to give it an appalaration				
55.	A I	10 m/s^2 is	an object an accelerati	on of m/s ² . The force	required to give it an acceleration				
	a)	15 N	b) 20 N	c) 25 N	d) 30 N				
34	8 1	Which of the follow	vinα isn't a waterborn	disease?					
01.	a)	Typhoid	b) Cholera	c)Hepatitis	d) Filariasis				
)	- J F	-)	-)F					
35.	We	eight of 224 cc of C	O ₂ at NTP is						
	a)	440 grams	b) 44 grams	c) 4.4 grams	d) 0.44 grams				
36	Iar	o drives carefully	hut her sister drives						
50.	a)	fastly	b) very fast	c) more quick	d) very quick				
	u)	lustry	b) very lust	c) more quick	a) very quick				
37.	Tw Wł	vo cards are drawr nat is the probabili	one after another with ty that both cards are l	n replacement from a v king?	vell shuffled pack of 52 cards.				
		-		-					
	a)	$\frac{1}{12}$	b) $\frac{1}{160}$	c) $\frac{1}{2c}$ d) $\frac{2}{12}$					
	,	13	/ 169	· 26 · 13					
38.	Th	e operating princi	ole of a hydraulic press	sis					
	a) Pascal's principle c) Newton's law of gravitation								
	b) Archimedes' principle b) Boyle's law								
39.	Wł	nich of the followi	ng is heterocrine glad?						
	a)	Thyroid	b) Adrenal	c) Pancreas	d) Pituitary gland				

40.	Which one of these is	s basic?		
	a) CO ₂	b) SiO ₂	c) Na ₂ O	d) SO ₂
41.	It happeneda) at lunch-time in	Friday. b) at lunch-time on	c) in lunch-time on	d) on lunch-time at
42.	In a series, $\sum fm = 7$ a) 10	$Z^2 + 8k, \bar{X} = 6 \text{ and } \sum f = 6$ b) 12	16 + k then the value c) 14	of k is d) 16
43.	If A and B are two in a) 0.16	ndependent events such b) 1	n that P(A) = 0.8, P(B) = c) 0	= 0.2 then P(A ∪ B) is d) 0.84
44.	A person cannot see a) – 0.5 D	clearly beyond 50 cm. b) + 0.5 D	The power of the lens c) - 2 D	required to correct his vision is d) + 2 D
45.	Which is largest part a) Medulla oblonga	t of human brain? hta b) Pons varoli	ii c) Cerebrum	d) cerebellum
46.	"Bell metal" is an all a) Cu + Zn	oy of b) Cu + Sn	c) Sn + Pb	d) Bi + Sn
47.	There was no truth t a) made it up	o his story. He simply b) made up it	c) drew it out	d) drew out it
48.	If two events A and a) 0	B are mutually exclusiv b) 1	ve then $P(A \cap B)$ is c) Not defined	d) 0.5
49.	An object is placed 1 a) Real, inverted, la b) Virtual, inverted	0 cm in front of a diver rge , large	ging lens of focal leng c) Real, erect, d) Virtual, ere	th 20 cm. The image will be diminished ect, diminished
50.	The number of chro a) 20	mosomes in human ov b) 21	um is c) 22	d) 23
51.	Which one of these r a) C_4H_8	epresents saturated hy b) C_6H_{10}	drocarbon? c) C5H12	d) C ₇ H ₁₂
52.	The active form of "V a) Was Shyam mad b) Did Shyam made	Was it made by Shyam e it? e it?	?" is:c) Did Shyam d) Does Shyar	make it? m make it?
53.	In a group of 240 gar only cricket?	me lovers, 135 like cricl	ket and 120 like footba	ll. How many people like
	a) 15	b) 120	c) 105	d) 135
54.	At what temperature a) 40°	e, reading on Celsius ar b) - 40°	nd Fahrenheit scales co c) 100°	oincides? d) 58°

55.	5. Which of the following is a chromosomal disorder?						
	a) Down's syndron	he b) AIDS		c) Cholera		d) Maramus	
56.	. The elements with atomic numbers 35, 53 & 85 are						
	a) noble gases	b) halogens		c) heavy meta	ls	d) alkali metals	
57.	The film was very sa	ad. Itcrv.					
	a) made us to	b) made us	c) let us	5	d) let 1	is to	
	,	.,	-,	-	-,		
58.	If a cost of an article rate?	with VAT is Rs 4,746 a	nd with	out VAT is Rs 4	4,200. V	Vhat is the VAT	
	a) 13%	b) 14%	c) 15%)	d) 16%	,)	
59.	The upper fixed point	nt and lower fixed poin	nt of a fau	alty thermome	ter are	110°C and -5°C	
	respectively. If this t	hermometer is used to	measure	the temperatu	are of a	liquid of whose actual	
	temperature is 50°C,	, reading on the thermo	ometer w	ill be	1) (0 -		
	a) 62.5°C	b) 57.5°C	c) 52.5°	C	d) 42.5	°C	
(0)	TA71 · 1 C · 1 C 11 ·			2			
60.	Which of the followi	ing is a metacentric chr	omosom	e?			
	a) Centromere is fo	at the exact centre	of chron	nosome.			
	b) Centromere is fo	und near centre.					
	c) Centromere lies	in sub-terminal position	n.				
	d) Centromere is fo	ound in terminal position	on.				
61	Number of elements	in the fifth period of n	omiadiat	ablaic			
01.	a	b) 10		able is	4) 22		
	a) 0	<i>b)</i> 10	C) 10		u) 52		
62.	I wish	the birthday party	last nigł	nt.			
	a) went	b) had gone	c) was	going	d) hav	e gone	
	-)	() ()	-) (0 0	- / -	0	
63.	If MP = Rs 1,500, SP	= Rs 1,275 then discour	nt percer	nt is			
	a) 5%	b) 10%	c) 15%)	d) 20%	%	
	,	,	,		,		
64.	The amount of heat	lost or gained by a bod	y does n	ot depends on			
	a) Mass of the body	7	c) Spec	ific heat capac	ity of th	ne body	
	b) Change in tempe	erature	d) Acceleration due to gravity				
	, , ,				U	-	
65.	The method of asexu	al reproduction which	ı takes pl	ace by the forr	nation	of bud is called	
	a) Fission	b) Budding	c) Spor	ulation	d) Fra	gmentation	
						-	
66.	Hydrogen chloride 1	nolecule contains					
	a) Covalent bond	b) Hydrogen bond		c) Co- ordinat	e bond	d) Electrovalent bond	
67.	Do you know where						
	a) lives Geeta	b) do Geeta lives		c) does Geeta	live	d) Geeta lives	
68.	At what rate percent	t per annum compound	d interest	will Rs 2,500 a	amount	ts to Rs 2,704 in 2 years?	
	a) 1%	b) 2%		c) 3%		d) 4%	

69.	69. 1 Joule of heat is equal to							
	a) 0.238 Calorie	b) 0.418 Calorie		c) 0.5 Calorie		d) 4.18 Calorie		
70.). Name the part of a pistil or carpel that changes to fruit is							
	a) Stigma	b) Style	0	c) Ovary		d) Ovule		
71.	The electronic config	$puration 1s^2.2s^2.2p^6.3s^2.3$	$3n^{6}.4s^{2}.7$	8d ⁶ represents				
	a) Cr	b) Mn	F / /-	c) Fe		d) Co		
70	Most poople as by t	rain The hus	ia ahaa	non and factor				
12.	a) although	b) despite	,15 Chea	c) while		d) however		
73.	A bought a new scoo How much did B pa	oter for Rs 2,10,000. After for the scooter?	er 2 yea	rs he sold it to B	at 10%	b per year depreciation.		
	a) Rs 1,70,100	b) Rs 1,80,200		c) Rs 1,90,300		d) Rs 1,90,000		
74.	A dynamo convertsa) Mechanical enerb) Magnetic energy	gy into electrical energy r into mechanical energ	y y	c) Electrical ener d) Magnetic ene	rgy in ergy ir	to mechanical energy nto electrical energy		
75.	Callus is formed du	ring						
	a) Layering	b) Grafting		c) Cutting		d) Tissue culture		
76	Urea is obtained by	the reaction of						
70.	a) CO_2 and NO_2	b) CH ₃ and NO ₂		c) CO and NH_3		d) CO_2 and NH_3		
77.	A suitable tag questi	ion of " I firmly believe	that ch	ildren ought to be	e give	n ample time for playing		
	a) oughtn't they	b) don't I		c) should they		d) ought they		
78.	The area of an equila	ateral triangle is						
	a) $\sqrt{3} a^2$	b) $\frac{\sqrt{3}}{2}a^{2}$		c) $\frac{\sqrt{3}}{4}a^2$ d	l) $\frac{3}{4}a^2$			
79.	In a transformer, thea) Alternating currentb) Resistance	e primary coil is connect ent (AC) source	ted to	c) Direct current d) Inductor	t (DC)	source		
80.	80. Mendel performed the hybridization experiment in							
	a) Pea plant	b) Gram plant	c) Ros	e plant		d) Bean plant		
81.	81. "Polystyrene" is an example of							
	a) Thermoplastic	b) Thermosetting pla	stic	c) Natural polyr	mer	d. Condensation polymer		
82.	The volume of triang	gular prism is	\ -		. -			
	a) Base area (A) × F b) $P \times 1 + 2\Delta$	leight (H)	c) Peri d) PxI	meter of base (P)	× Hei	ignt (H)		

83.	What is the el hours.	ectrical energy con	sumed by 5 tube light	ts of 40 W each when they	are used for 40
	a) 6 kWh	b) 8 kWh	c) 10 kWł	n d) 12 kWh	
84.	The two-alter	native form of a ge	ne is called		
	a) Factor	b) Allele	c) Chrom	atid d) Centromer	e
85.	An element X a) M^+	has an atomic mas b) M ²⁺	ss 19 and atomic num c) <i>M</i> ⁻	ber 9. Its ion is represented d) <i>M</i> ^{2–}	by
86.	Eating 5 servi we require.	ngs of fruits and ve	egetables daily	said to provide all the e	ssential vitamins
	a) is	b) are	c) was	d) has been	
87.	The volume of a) 4 cm	of cone is 1848 cm ³ a b) 5 cm	and radius of Its base c) 9 cm	is 14 cm then height of con d) 14 cm	e is
88.	A fuse wire re a) More leng	epeatedly gets burr gth b) Less rac	nt when used with a g dius c) Less les	ood heater. It is advised to ngth d) More radiu	use a fuse wire of Is
89.	The phenotypa) 2:2	pic ratio of F2 indiv b) 1:2:1	iduals in Mendel's mo c) 3:1	onohybrid cross is d) 1:3	
90.	An element h a) 18	as atomic number 1 b) 19	18. The number of "N c) 21	eutrons" in its atom is d) 22	
91.	"What shall l a) he shall ea	l eat, mother?" he s at b) he wou	aid. He asked his mot ld eat c) he show	her what ıld eat d) I will eat	
92.	The average of issixth numbers	of six numbers is 16 er?	. If five of the number	r are 15, 37, 16, 9 and 23. W	hat
	a) -20	b) -4	c) 0	d) 6	
93.	Evolution of l a) Precambr	ife on land occurre ian era b) Palaeoz	d in tic era c) Mesozo	oic era d) Cenozoic e	ra
94.	A sudden her a) Mutation	itable change in the b) Heredit	e structure of genes ar cy c) Inherit	nd chromosomes is ance d) Variation	
95.	Butane with r a) 12 covaler	nolecular formula (nt bonds b)	C ₄ H ₁₀ has 13 covalent bonds c) 14 covalent bonds d) 15 c	covalent bonds
96.	"She floats lik a) simile	e a laugh from the b) metaph	lips of dream" is an or c) person	example of:d) alli	teration
97.	None but the a) deserve	brave b) deserve	the fair. es c) has des	serve d) des	erved
98.	Everybody in total number	a room shake hand of person in room i	d with each other. The	e total number of handshak	e is 66. Then the
	a) 11	b) 12	c) 13	d) 14	
99.	Comets revo	lve around			
	a) Sun	b) Earth	c) Venus	d) No single ł	neavenly body
100). Shyam a) have mo	to New York ved b) moved	c in 2002. c) did mo	wed d) has moved	1