## EVEREST SECONDARY SCHOOL

Biratnagar-5, Morang

## ENTRANCE EXAMINATION MODEL QUESTION 2081 (SCIENCE)

Choos	e the correct options for the following	g questions.					
1.	A pair of pantscostly.						
	a. are	b. is					
	c. were	d. have been					
2.	You haven't met my wife,?						
	a. have you not	b. have you					
	c. do you	d. aren't you					
3.	It is 6 o'clockmy watch.						
	a. on	b.by					
	c. in	d. at					
4.	Weit if you explained it more slowly.						
	a. understood	b. had understood					
	c. could understand	d. would have understood					
5.	What is the passive of "I did it"?						
	a. It is done	b. It is being done					
	c. It was done	d. It has been done					
6.	SheEnglish by next Frida	SheEnglish by next Friday.					
	a. will have studied	b. studies					
	c. will be studying	d. will have been studying					
7.	Which one of the following incorrect?						
	a. Lover of war – warmonger	b. Lover of food – gourmet					
	c. The art of correct spelling – orthog	graphy d. One who is generous – Scrooge					
8.	The tree shook its branches angrily. What type of figurative language is used in the						
	sentence?						
	a. Hyperbole	b. Personification					
	c. Onomatopoeia	d. Metaphor					
9.	The television was on but nobody it.						
	a. is watching	b. was watching					
	c. has been watching	d. had been watching					
10	The teacher said to me, "You can do if you try".						
	a. The teacher told me that she could do if I tried.						
	b. The teacher told me that I could do if I tried.						
	c. The teacher told me that you can do if you try.						
	d. The teacher told me that I can do if I try.						
11	. In the equation $s = ut + xt^2$ , s, u and	d t are displacement, velocity and time					
	respectively all taken in SI units. The unit of x is						
	a. m/s	b. $m^2/s$					
	c. $m/s^2$	d. $m^2/s^2$					
10	A net force of 50N makes a body to	accelerate with magnitude 2 5ms <sup>-2</sup> What is the					

12. A net force of 50N makes a body to accelerate with magnitude 2.5ms<sup>-2</sup>. What is the mass of the body?

a. 50 g	b. 50 Kg				
c. 20 g	d. 20 Kg				
13. The readings shown on a	. The readings shown on a spring balance on weighing an object in air, water and				
vacuum are $W_1$ , $W_2$ and $V_2$	W3 respectively. The ascendi	ng order of the weights is			
a. $W_1 < W_2 < W_3$	b. $W_2 < W_1 < W$	3			
c. $W_3 < W_2 < W_1$	d. $W_1 < W_3 < W$	2			
14. What is the value of abso	lute zero temperature?				
a. 0 °C	b. 0 K				
c273.15 K	d. 273.15 K				
15. Which unit is used to mea	asure magnetic flux?				
a. Ampere	b. Weber				
c. Tesla	d. Henry				
16. Three transparent medium	ns say A, B and C have refra	ctive indices 1.33, 1.60 and 1.65			
respectively. The velocity	of light is minimum in med	lium			
a. A	b. B				
c. C	d. equal in all				
17. The frequency of ac supp	ly in Nepal is				
a. 50 Hz	b. 55 Hz				
c. 60 Hz	d. 65Hz				
18. The value of acceleration					
a. 9.8 ms <sup>-2</sup>	b. more than 9.8	ms <sup>-2</sup>			
c. Less than 9.8 ms <sup>-2</sup>	d. Zero				
19. Which of the followings i	-				
a. Lack of vitamin A	b. Lack of vitam				
c. Lack of nutrients	d. Lack of protei				
• •	in the reaction: 2NaHCO <sub>3</sub> +	$+X \rightarrow Na_2SO_4 + 2H_2O + 2CO_2$			
a. $H_2SO_4$	b. $K_2SO_4$				
c. $H_2CO_3$	d. CaCO <sub>3</sub>				
21. Magnetite is an ore of					
a. Iron	b. Silver				
c. Copper	d. Gold				
22. Which of the followings i	• •	A?			
a. Be	b. Mg				
c. Na	d. Ca	1			
23. The pH value of a solutio		olution must be			
a. Acidic	b. Basic				
c. Neutral	d. Salt solution	4			
24. Which of the substances g	•	tructure?			
a. Water	b. Plastic				
c. Salt	d. Glass				
25. What is the molecular for					
a. OH	b. $O_2$				
c. $O_3$ 26 What is the UIPAC name	d. $H_2O_2$				
20. What is the IUFAC halle	What is the IUPAC name of the given compound? $CH_2-OH$				
a. Glycerol	b. 1,2,3- propanetriol	I CH –OH			
	0. 1,2,3- propaneuror				
		CH <sub>2</sub> -OH 2			

27. What is the molecular weight of Carbon dioxide?							
	a. 12	b. 16					
	c. 32	d. 44					
	28. Which of the following comp	pound is detergent?					
	a. Sodium Carbonate	b. Calcium Carbonate					
	c. Calcium Carbide	d. Sodium Nitrate					
	29. Which of the followings is not a web browser?						
	a. Chrome	b. Firefox					
	c. Brave	d. YouTube					
	30. Binary equivalent of decimal number 3 is						
	a. 10	b. 100					
	c. 11	d. 111					
	31. The intersection of set $A = \{1, \dots, n\}$	,2,3,4,5} with an empty set is					
	a. {1,2,3,4,5}	b. { }					
	c. {0}	d.{5}					
	32. A person sold a bicycle for \$	180, making a loss of 10%. What was the cost price of					
	the bicycle?						
	a. \$120	b. \$200					
	c. \$210	d. \$220					
	33. Five years ago, the father's a	ge was three times the age of his son. If the father is now					
	30 years old, what is the cu	irrent age of the son?					
	a. 5 years	b. 10 years					
	c. 15 years	d. 20 years					
	34. If the surface area of a cube is 54 cm <sup>2</sup> , what is the volume of the cube?						
	a. 27 cm <sup>3</sup>	b. 18 cm <sup>3</sup>					
	c. 36 cm <sup>3</sup>	d. 72 cm <sup>3</sup>					
	35. The expression $x^2 - x - 56$ is	s equivalent to which of the following?					
	a. $(x - 14)(x + 4)$	b. $(x-7)(x+8)$					
	c. $(x-8)(x+7)$	d. $(x-4)(x+14)$					
	36. 33, 34, 38, 41, 43, 44, 47						
	Which of the following is the	e median of the data listed above?					
	a. 38	b. 40					
	c. 41	d. 42					
	37. The angle of elevation of a to	ower from a point 30 m away from its base is $60^0$ . The					
	height of the tower is:	-					
	a. 15 m	b. $30\sqrt{3}$ m					
	c. $45\sqrt{3}$ m	d. 60 m					
		$a^{2} - 4x + k = 0$ are real and equal, then k is:					
	a. 4	b. $2$					
	a. 4 c. 1	d. 0					
		red ball from a bag containing 5 red balls and 3 blue					
	37. The probability of unawing a	rea ban nom a bag containing 5 rea bans and 5 blue					

39. The probability of drawing a red ball from a bag containing 5 red balls and 3 blue balls is:

a. <del>5</del>	b. $\frac{3}{8}$			
<sup>41</sup> 8 5	8			
c. $\frac{5}{3}$	d. $\frac{3}{5}$			
40. In the given figure O is t	In the given figure O is the center of circle and $\angle AOB = 130^{\circ}$ . Find $\angle APB$			
a. 110°	b. 115°			
c. 100°	d. none of above $\begin{pmatrix} Q \\ Q \end{pmatrix}$			
41. which is the national gam				
a. Cricket	b. Hockey A P			
c. Basket Ball	c. Basket Ball d. Volley Ball			
42. Who is the present gover	mor of Nepal Rastra Bank?			
a. Yadav Pant	b. Maha Prasad Adhikari			
c. Tilak Bahadur Rawal	d. Chiranjit Nepal			
43. Who is the present home	minister of Nepal?			
a. Rabi Lamichhane	b. Gagan Kumar Thapa			
c Balen Shah	d. Swarnim Wagle			
• •	Iepal lose to South Africa in the T20 World Cup 2024?			
a. 2	b. 3			
c. 4	d. 1			
45. Which is the nearest plan				
a. Mars	b. Venus			
c. Mercury	d. Jupiter			
46. Find the missing number				
121, 144, 169, 196,	1 220			
a. 225	b. 230			
c. 275	d. 221			
47. Which fraction is the big a. 3/5	b. 5/8			
c. $\frac{1}{2}$	d. 4/7 hen 9809028 is divided by 63			
a. 63	b. 54			
a. 65 c. 65	d. 67			
49. MUSIC: COMPOSE	u. 07			
DEVICE: ?				
a. use	b. create			
c. construct	d. invent			
50. If $Z = 52$ and $ACT = 48$ ,				
a. 39	b. 41			
c. 44	d. 46			

## -- THE END --

## Answer Key:

1.b	2.b	3.b	4.c	5.c	6.a	7.d	8.b	9.b	10.b
11.c	12.d	13.b	14.b	15.b	16.c	17.a	18.c	19.a	20.a
21.a	22.c	23.a	24.c	25.c	26.b	27.d	28.a	29.d	30.c
31.b	32.b	33.b	34.a	35.c	36.c	37.b	38.a	39.a	40.b
41.b	42.b	43.a	44.d	45.c	46.a	47.b	48.b	49.d	50.d