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a. 100 m/sec²

 $c. 10 \text{ m/sec}^2$

a. loudspeaker

c. sonometer

9. Sound energy is converted into electrical energy in a:

SUSHMA GODAWARI ENTRANCE EXAMINATION-2081 (20224) F. M.: 70 Time: 1.5 hours **DIPLOMA IN COMPUTER / CIVIL ENGINEERING 2081** Attempt all the questions **Objective Answer Questions:** (70x 1=70)Rewrite the correct option of each quest in your answer sheet. 1. Ball pen functions on the principle of a. Viscosity b. Boyle's law c. Gravitational force d. Surface tension 2. Which of the following diseases results from endocrine disorder? a. Pneumonia b. Goitre c. Typhoid d. Jaundice 3. Which of the following is called a positive electron? a. Proton b. Positron c. Protium d. Protonium 4. The value of g at the pole is a. 9.78 m/s^2 b. 9.83 m/s^2 $c = 10 \text{ m/s}^2$ d. 9.8 m/s^2 5. Which organic acid is found in an apple? a. Tannic acid b. Lactic acid c. Malic acid d. Citric acid 6. The full form of TNT is a. Tri Nitro Toluene b. Triple Nitrogen Tablet d. None of above c. Tetra Nitro Titanium 7. The atomic theory was given by a. Chadwick b. J.J Thomson c. John Dalton d. E. Rutherford 8. A 200 kg car traveling at 10 m/s hits a tree and is brought to rest in 0.10s. What is its acceleration before comes to rest?

b. 120 m/sec² d. 200 m/sec²

b. microphone

d. earphone

10.	Which of the alkalis have no met	al?	
	a. Sodium hydroxide	b. Ammonium hydroxide	
	c. Magnesium hydroxide	d. Calcium hydroxide	
11.	What is the main principle of an	electric bell?	
	a. to ring the bell	b. electromagnet	
	c. magnet	d. pole energy	
12.	Estimate the height of a hanging	bridge over the tamor river; if a stone drops	
	freely takes 4 seconds to touch the water surface.		
	a. 78 m	b. 78.2 m	
	c. 78.4 m	d. 78.6 m	
13.	What is the molecular formula of	f laughing gas?	
	a. N_2O_3	$\mathrm{b.N_2O_5}$	
	c. N ₂ O	$d. N_2O_4$	
14.	In the photosynthesis process,	which of the following is not an essential	
	factor?		
	a. sunlight	b. carbon dioxide	
	c. chlorophyll	d. acid	
15.	What is the pH value of pure water?		
	a. 6	b. 5.5	
	c. 7.5	d.7.0	
16.	A fruit develops from the part of	a plant called	
	a. embryo sac	b. ovary	
	c. egg	d. pollen tube	
17.	Nitrogen compounds in the nitro	gen cycle are broken down by decomposers to	
	release		
	a. methane	b. ammonia	
	c. urea	d. nitrogen gas	
18.	The molecule that does not obey	the octet rule is	
	a. MgO	b. NaCl	
	\circ . BeCl ₂	d. NH ₃	
19.	At what temperature the density of water is maximum?		
	$a.0^{0}c$	$b.4^{0}c$	
	c. 3 ⁰ c	$d.100^{0}c$	
20.	The chemical formula of calcium	hydrogen carbonate is	
	a. Ca(OH) ₂		

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c. $Ca(HCO_3)_2$	d. Na ₂ CO ₃	a.700 W	b.500W
21. The Latin name of mercury is		c.800W	d. 600W
a. Argentum's	b. kalium	33. Which gas is used to produce	blueprint?
c. natrium	d. hydrargyrum	a. carbon dioxide	b. nitrogen
22. Pneumatic bone is found in		c. ammonia	d. helium
a. shark	b. Rana	34. Which form of energy is store	d in the nucleus of an atom?
c. pigeon	d. whale	a. chemical	b. light
23. The first metal used by the man v	vas	c. sound	d.nuclear
a. Iron	b.Copper	35. Which element makes blood r	ed?
c.Silver	d. Gold	a.Fibrinogen	b.Platelets
24. Which is the Largest Ethnic grou	p in Nepal?	c.WBC	d.Hemoglobin
a. Brahmin c. Tamang	b. Tharu d. Chhettri	36. Which of the following pairs of	of substances on reaction will not evolve H ₂ gas?
		a. Iron and H ₂ SO ₄ (aq.)	b.Iron and steam
25. In cricket the length of pitch betw	veen the two wickets is	c. Copper and HCl(aq.)	d. Sodium and ethanol
a) 24 yards	b. 23 yards	37. T.llest Building of the world is	8
b) 22 yards	d. 21 yards	a. shanghai tower	b. lotte world tower
26. Which is the uppermost part of the	ne atmosphere?	c. wills tower	d. Burzkhalifa
a. Troposphere	b. Exposphere	38. The percentage of nitrogen ga	s in atmosphere is
c. Stratosphere	d. Mesosphere	a.21%	b.78%
27. What is the last letter of Greek al	phabet?	c.70%	d.1%
a. Pi (π)	b. Alpha (α)	39. Nowadays, Harry is	busy taking care of her health.
c. Beta (β)	d. Omega (ω)	a) Very	b. too
28. Paramecium is		c) So,	d extremely
a. herbivorous	b. carnivorous	40. Would you mind	•
c. insectivorous	d. omnivorous	a) to switch	b. switching
29. The full form of LED is		c) to switching	d. to be switching
a. Light emission device.	b. Laser emitting device.	41. Before the Angles and the Sax	xonsto England, the Iberians had lived
c. Light emitting diode.	d. Laser emitting diode.	there.	•
30. What does CPU stands for?		a. Coming	b. Come
a. Computer Peripheral Unit	b. Central Processing Unit	c. Came	d. did come
c. Central Processor Unit	d. Computer Processor Unit		
31. The process of decomposing soil	nitrogen into atmospheric nitrogen is called	42. You must dispense his ser	vice.
a. nitrogen fixation	b. ammonification	a. in	b. at
c. nitrification	d. denitrification	c. with	d. of
32. A man does 6000J work in 10 sec	c. His power is		

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43.	The principal and secretary	_were highly impressed with the overall
	progress of the students.	
	a. were	b. was
	c. are	d. is
44.	He walked as if he lame.	
	a. is	b. was
	c. had been	d. is being
45.	The bed and breakfast — nice. We h	ad fun.
	a. is	b. are
	c. was	d. is/was
46. I have received no invitation		
	a. either from A or from B.	b. either from A or from B.
	c. neither from A nor from B.	d. neither from A or from B.
47.	"Mind your own business," he said .	
	a. heavily	b. hardly
	c. harshly	d. rudely
48.	Which word is incorrectly spelled?	
	a. preferable	b. nuptial
	c. nuisance	d. hygiene
49.	Upper quartile of the continuous ser	ies is
	a. $L + \frac{\frac{N}{2} - c.f.}{f} xh$ b. $L + \frac{\frac{N}{4}}{f}$	
	<u>N</u> .	- c f
	1 + 2	vh
	c. $L + \frac{\frac{3N}{2}c.f.}{f}xh$ d. $L + \frac{N}{2}$	
50.		ontaining 5% water with 80 liters of milk
	containing 10% water. What is the p	ercentage of water in the mixture?
	a.5%	b.7%
	c.9%	d.11%
51.	If $f(x) = (10 - x)^2$ and $m = f(6)$, then	which one of the following equal to 4m?
	a. f (12)	b. f (18)
	c. f (24)	d. f (8)
52. For what value of k one root of $2x^2 - (6 + k)x + (2 + k) = 0$ is zero		
	a. 0	b. 6
	c 2	d -2

53.	For what value of K will the points (1	, 4), (-3, 16) and (K, -2) are
	collinear?	
	a. 1	b. 3
	c. 6	d. 10
54	If the amount of a sum of money is 5/4	
J - T.	rate of interest is	of the principal in 2.5 years, then the
	a. 5%	b. 10%
	c. 15%	d. 25%
55	The marks of 10 students of a class are	
<i>JJ</i> .	the average mark is 55, then the value of	
	a. 52	b. 51
	c. 50	d. 53
56	If $x+y=10$ and $x-y=11$, what is the value of	
50.	a. 100	b. 110
	c. 121	d. 21
57	Find the value of x, if $2^{x+1} - 2^x - 8 = 0$	u. 21
57.	a. 3	b. 2
	c. 3/ 2	d. 2/3
58	What is the average of 4y+3 and 2y-1?	u. 2/ 3
56.	a. 3y+2	b. 3y+1
	a. 3y+2 c. 3y+4	d. y+1
50	If the diameter of a semi-circular protract	-
39.	a.22cm	b. 33cm
	c). 36cm	d. 42cm
60	There are n arithmetic means between 3	
00.	the first mean is 3:1, then the value of n is	
	a.6	b.7
	c.8	d.9
61		
01.	After paying an income tax of 5%, a income?	man has Rs./600 left. What is his
	a.Rs. 8000	b.Rs. 6000
	c.Rs. 4000	d.Rs.16000
62		
υ2.	A boy is three years older than his sister	. Two years ago, the sum of their ages
	was 19. How old is the boy now?	h 12Voors
	a.11years	b.12Years
	c.13Years	d.10Years

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53.	If $P = (3 \ 0 \ 0 \ 3)$ then P^3 is		
	a.(3 0 0 3)	b.(9009)	
	c.(27 0 0 27)	d.(27 3 3 27)	
54.	What is the sub-triplicate ratio of 2	27:64?	
	a. 9:16	b. 9:27	
	c.3:5	d.3:4	
65.	Angles of a triangle are in the ratio	3:5:7, then the triangle is;	
	a.acute angled	b.obtuse angled	
	c.right angled	d.none	
66.	If $f(x)=3x+b$ and fof (2) =12,then to	the value of b is	
	a. $\frac{3}{2}$ b. $\frac{-2}{2}$	<u>3</u>	
	c. $\frac{-1}{3}$ d. $\frac{1}{3}$	<u>.</u> I	
57.	If 10 cows eat as much as 6 oxe	n, how many oxen will eat as much as 15	
	cows?		
	a. 10	b. 6	
	c. 9	d.15	
68. If a dice is thrown two time, find the prob		I the probability of the outcomes being 5 in	
	the first throw and an odd number	In the second row?	
	a. 1/12	b 2 /3	
	c. 5 /6	d 2/ 9	
59.	The product of two consecutive natural numbers is		
	a.even	b. prime	
	c.odd	d.none	
70.	The solution region of inequalities	-	
	•	o. 2nd quadrant	
	c. 3rd quadrant	d.4th quadrant	