Class 9 Practice Paper [Science] - Olympiad



	Which of the following correctly represents the increasing order of intermolecular forces of attraction between the particles?						
	(A) solid > liquid > ga	s (B) solid > ga	as > liquid				
	(C) gas > solid > liqui		<u>-</u>				
2. W			~	NG in vehicles as a fuel?			
	(A) High compressibi	lity (B) Readily a	vailable				
	(C) Easily renewable	(D) More mile	eage				
3. W	hich of the following pro						
	(A) Increasing pressu						
	(C) Increasing tempe	rature (D) Increasin	g volume.				
4. Which of the following is an example of homogeneous mixture?							
	(A) A mixture of vine		mixture of vinegar and	water			
	(C) A mixture of wate	r and oil (D) A	mixture of salt and oil				
	ne concentration in termail 00 g of water is:	s of mass by mass pe	rcentage of a solution	containing 20 g of common salt in			
	(A) 3.7 %	(B) 5.9 %	(C) 6.25 %	(D) 3.2 %			
7. Tł	(B) After centrifugation (C) After centrifugation (D) After centrifugation (D) After centrifugation (E) After centrifugation (E) Millimeter (E) 1/12 th of the mass (E) 1/12 th of the mass (C) 1/12 th of the mass (C) 1/12 th of the mass (C)	on the denser particles on the denser particles on the denser particles on the denser particles omic radius is (B) Nanometer qual to s of one atom of carbo s of one atom of hydro	s, remain suspended in s, settle at the bottom s, forms thicker layer w (C) Micrometer	n liquid which float over the liquid (D) Centimeter			
	(D) 12 times the mas	s of carbon- 12					
9. Ca	alculate the molecular m (A) 18	ass of H ₂ O (B) 12	(C) 33	(D) 16			
10. N	Maximum number of election (A) 9	ctrons that can be acc (B) 6	commodated in M shell (C) 18	is (D) 10			
11. V	What is the atomic numb (A) 4	er of an atom which h (B) 2	as 8 protons in it? (C) 5	(D) 8			
12. V	Who discovered electron		(C) E Coldatain	(D) Puthorford			
	(A) J.J. Thomson	(B) Albert Einstein	(C) E. Goldstein	(D) Rutherford			

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13.	A solution in which the (A) Hypertonic	cell gains water by osn (B) Hypotonic	nosis is: (C) Isotonic	(D) None of these			
14.	The cell which lacks me (A) Prokaryote	mbrane-enclosed orga (B) Eukaryotic	anelles is called: (C) Protozoa	(D) Bacteria			
15.	Which of the plant cell s (A) Permanent tissu (C) Vascular Tissue	e (B) Meristem	natic tissue				
16.	Which of the following is (A) xylem parenchyr (C) companion cells	ma (B) S	ment in conducting wat ieve tubes racheid's	er and mineral in the plants			
17.	The cell responsible for (A) Parenchyma (C) Squamous epith	(B) Cuboidal	epithelium	mouth is:			
18.	Which of the following (A) Tropical Regions (C) Plains	~		se countries?			
19.	The simple eukaryotic o (A) Monera	rganisms which use h	air like cilia or whip like (C) Protista	flagella for locomotion are seen in (D) Fungi			
20.	An object travels 20 m i (A) 12	n 3 s and then another (B) 20	r 20 m in 2 s. What is th (C) 4	ne average speed of the object? (D) 8			
21.	A car started from rest a	and attained a velocity (B) 15	of 72 km h ⁻¹ in 5 minut (C) 1/15	tes. Calculate the acceleration. (D) 20			
22.	A fielder in the ground g (A) Increase the mod (C) Increase acceler	mentum.	ds backwards with the (B) Decrease accele (D) Increase the spe	ration of the ball.			
23.	 23. As the radius of the earth increases from the poles to the equator, what happens to the value of g (A) The value of g remains same at the poles and the equator (B) The value of g decreases at the poles than at the equator. (C) The value of g becomes greater at the poles than at the equator. (D) None of these. 						
24.	Let the mass of an object (A) 12 N	ct be 20 kg. Calculate (B) 1.96 N	its weight on moon? (C) 32.6 N	(D) 196 N			
25.	The density of silver is 1 silver.	10800 kg m-3 while tha	-	n-3. Calculate the relative density of			
	(A) 108.0 kg m ⁻³	(B) 10.8 kg m ⁻³	(C) 10 kg m ⁻³	(D) 80 kg m ⁻³			

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26.	(A) 20	on an object. The obje (B) 10	ct is displaced through (C) 1	5 m in the direction of the force. (D) 5
27.	Calculate the potential er (A) 120	nergy of an object of m (B) 200	ass 20 kg at a height o	of 6 m above the ground (g =10ms ⁻² (D) 1200
28.	1 kW h = J (A) 36 X 10 ⁶ J	(B) 3.6 X 10 ⁶ J	(C) 36 X 10 J	(D) 3 X 10 J
29.	An electric bulb of 100 W the bulb.	is used for 10 h per d	ay. Calculate the 'units	s' of energy consumed in one day by
	(A) 2 kW h	(B) 0.1 kW h	(C) 1 kW h	(D) 10 kW h
30.	The regions where partic known as:	les are crowded togeth	ner and represented by	the upper portion of the curve are
	(A) Trough	(B) Contraction	(C) Depression	(D) Compression
31.	The distance between tw (A) Crest	o consecutive compre (B) Time period	ssions (C) or two cons (C) Frequency	ecutive rarefactions (R) is called: (D) wavelength
32.	More number of compres (A) Reduced frequence		passing a fixed point (C) low pitch	per unit time results in: (D) decreased vibration
33.	Elephantiasis is a: (A) Chronic disease (C) Communicable di	, ,	xually transmitted dise ne of these	ase
34.	Which of the following dis (A) Typhoid	sease is not caused by (B) anthrax	bacteria? (C) tuberculosis	(D) kala-azar
35.	Presence of high levels of weather when water also	condenses out of air.	This is called:	
	(A) Smog	(B) Fog	(C) Mist	(D) Pollution
36.	(B) Ensure good vege (C) Gives rise to heal	phosphorus and potassetative growth.	sium.	
37.	The process in which farm (A) Composting (C) Tilling	m waste material like li (B) Vermi com (D) Ploughing	nposting	other organic matter is called: A