

Underline the correct answer.

- 01) The Element which contains the least percentage in human body based on mass is,
 - 1) 0

2) C

3) H

- 4) N
- 02) Select the answer which contains only the pair of vector quantities,
 - 1) Distance, Displacement
- 2) Displacement, Velocity
- 3) Velocity, Speed
- 4) Speed, Acceleration
- 03) The nuclear model of the atom was introduced for the first time by,
 - 1) J. J. Thompson
- 2) Neils Bohr
- 3) Ernest Rutherford
- 4) Thales

- 04) The sugar which is not present in plants,
 - 1) Lactose
- 2) Fructose
- 3) Sucrose
- 4) Glucose

- 05) The standard unit of acceleration is,
 - 1) $m^2 s^{-2}$
- 2) ms⁻²
- 3) ms⁻¹
- 4) ms
- 06) Which of the following element makes an amphoteric oxide?
 - 1) P

- 2) Mg
- 3) Al

4) Si

- 07) A deficiency symptom of vitamin 'c' is,
 - 1) Night Blindness.

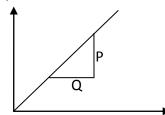
- 2) Weakening of gums.
- 3) Deforming of bones.
- 4) Dryness in skin.
- 08) If a certain vehicle travels a distance of 600m in 2 minutes, the mean speed of the vehicle is,
 - 1) 5ms⁻¹
- 2) 10ms⁻¹
- 3) 30ms⁻¹
- 4) 50ms⁻¹

- 09) The unit of measuring ionization energy is
 - 1) kJmol⁻¹
- 2) molkJ⁻¹
- 3) gmol⁻¹
- 4) kJmol
- 10) Fatty acids + Lipids + water

Select the component suitable to fill the above blank from the Following answers

- 1) Amino acids
- 2) Glycogen
- 3) Galactose
- 4) Glycerol
- 11) What is the correct statement regarding the graph given for the motion?

Displacement



- 1) The transverse distance of the object is given by P/Q
- 2) The velocity of the object is given by P/Q
- 3) The acceleration of the object is given by P/Q
- 4) The momentum of the object is given by P/Q

Time

12) What is the electro	onic configuration of 2) 2, 3, 8	an element when the 3) 2, 8, 3	atomic number is 13? 4) 2,8,13
13) What is the organe 1) Mitochondrion	elle which <u>does not</u> c 2) Ribosome	contain a membrane? 3) vacuole	4) Golgi Complex
14) The amount of ma 1) Mass	tter contained in an 2) Volume	object is known as, 3) Weight	4) Density
15) Which of the follow	wing allotropes of ca	rbon is used for makir	ng electrodes of electrochemical
1) Charcoal	2) Diamond	3) Graphite	4) Amorphous carbon
3) The increase of	•	e cell	
17) Y	follow	ing diagram , if it depi	by a student is shown in the cts an object in rest what would s for X and Y respectively
1) Time and speed		3) Time and velocity	
2) Distance and tir	ne	4) Time and displace	ement
18) The Formula of nit 1) Na	rate of element Y is 2) Mg	$Y(NO_3)_2$, what is the magnetic 3) Al	nost suitable answer for element Y. 4) K
19) N, K, Fe are neede condition in leaves	-	ts. Deficiency of which	element/s causes chlorosis
1) N only	2) K only	3) Fe only	4) N, K, Fe
20) According to the 3 1) Similar in direct		e reaction which acts a 2) Similar in Magnitu	against a particular action is, ude
3) Perpendicular in		4) Dissimilar in Magr	
21) Which of the follow	wing element is store	ed in the laboratory ur	nder special safety precaution ?
1) Copper	2) Sulphur	3) Sodium	4) Aluminum
22) A significant featu	re common to all car	bohvdrates. Proteins a	and Lipids .
1) Acts as an energ		2) Acts as enzymes	
3) Acts as hormon	•	4) Help for conservat	ion of water
23) Which of the follow		, .	
_5,	_	wton's first Law	
		wton's second Law	
	4 - 1	wton's third Law	
		wton's all 3 Laws	
	1, 110		

24) What is the incorrect statement regarding t	the isotopes of the same	element?		
1) Electronic configuration is equal	2) Number of protons a	re equal		
3) Mass number is equal	4) Number of electrons	are equal		
25) The specimen used during the first observa		-		
1) A cross section of a bee hive		f an onion peel		
3) A peel from the lower surface of a plant	leaf 4) A section	of a cork		
5) The mass and weight of an object measured at the sea level is taken to a mountain top in the same condition, therefore, 1) The mass of the object reduces 2) The Weight of the object reduces				
1) The mass of the object reduces3) The mass of the object increases	4) The Weight of the obj			
27) The element X forms the oxide X ₂ O with Ox 1) X ₂ CO ₃ 2) XCO ₃	eygen. Then the formula of $3) \times (CO_3)_2$	of carbonate of element X is, 4) X_3CO_2		
28) The cellular organelle which is arranged as1) Mitochondrion2) Chloroplast	a collection of flattened s 3) Endoplasmic reticulum			
29) This diagram shows an object being pulled by force "F" along a horizontal plane as seen from above. The frictional force acts on the object is shown correctly by ,				
Q F		-		
R				
•	3) R 4) S	21 IL		
30) Consider following statements regarding the	ne valency			
a) The valency is the combining ability of				
b) The combining power is measured rela		and the sales and all all and		
c) The electrons present in the first shell of	of an atom of an element	are the valency electrons		
True statements are, 1) a and b only 2) b and c only 3) a and c only 4) a ,	b , c all		
31) Facts regarding the plasma membrane are	given below			
a) It is only present in animal cells				
b) A semi permeable membrane				
c) It is made-up of phospholipids and prot	teins			
True from above, 1) a and b only 2) a and c only 3) b a	and c only 4) a ,b , c al	I		
32) John uses a pulley to draw water from his v	·			
was difficult to draw up water while using it				
1) Remove the pulley and fixing it again	2) Apply oil to the a	• •		
3) Apply oil to the groove of the pulley	4) Rotate the pulley	tirmly		
33) When studying animal cells, steps of prepara a) Transfer the sample of cheek cells from b) Scrape the cheek cells using a yoghurt s	the cheek on to a clean s			
c) Observe it under the low power through	•			
d) put a drop of water on it and cover by a		ng air bubbles		
The correct sequence of the above activity		J		
1) a,c,b,d 2) b,d,a,c	3) b,a,d,c	4) a,b,c,d		
	•			

34) What is the momentum of a vehicle of mass 200 kg, moving at a velocity of 8 ms⁻¹

1) 200 x 8 kgms⁻¹

2) 200/8 kgms⁻¹

3) 8/200 kgms⁻¹

4) 200+8 kgms⁻¹

- 35) Three facts about nucleic acids are stated below
 - a) Store genetic information of organisms
 - b) All the diseases caused to organisms transfer from generations to generation
 - c) Important in protein synthesis

1) a and b only

2) b and c only

3) a and c only

4) a ,b , c all

36) A barrel of mass 25 kg is placed on a horizontal plane. When a force of 350 N is applied on it, the acceleration of the barrel is

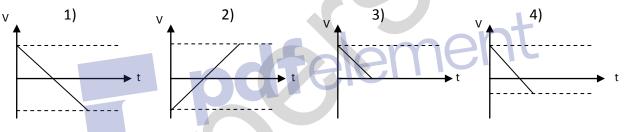
1) 350/25 ms⁻²

2) 25/350 ms⁻²

3) 350 x 25 ms⁻²

4) 350 x 25 / 1000 ms⁻²

- 37) Regarding the following facts about proteins, Protein is,
 - 1) A simple molecule made up of amino acids
 - 2) A simple molecule made up of fatty acids
 - 3) A complex molecule made up of amino acids
 - 4) A complex molecule made up of fatty acids
- 38) A ball projected upwards from the school ground got stuck on the roof of a building while falling down. What is the most suitable velocity time graph from the following to illustrate this incident?



39) Accident faced by 3 students in a laboratory and the first aid treatments given to them are mentioned below (they are not in the correct order)

	accident	First aid treatment	
	a) Burning caused by acids	a) Cool the relevant place as much as possible with cool water	
b) Burning caused by bases		b) Wash with water and sprinkle with NaHCO ₃	
	C) Burning caused by fire	c) Wash under running water / apply 1% acetic acid	

Select the accident with the correct treatment in order

1) b,c,a

2) c,a,b

3) a,b,c

4) b,a,c

- 40) What would you do if an instrument is damaged by you while you are doing activities in the laboratory?
 - 1) Inform the principle
 - 2) Inform the disciplinary committee
 - 3) Hide the instrument
 - 4) Inform the teacher in charge of science