

Provincial Department of Education Northern Province



Second Term Examination - 2023

Grade :- 11	Science I	Time :- 1 hour
Index Number :	34 T I	
Note:-		
 Answer All questions 		
-	mber 1 to 40 pick one of the alternative	ves (1) , (2) , (3) , (4) which is cor-
rect or most appropriate.	1	1 4 11
• Mark a cross (X) on the number	corresponding to your choice in the a	nswer sneet provided.
Which structure can be observed in	plant cell and not in Animal cell?	
1. Cytoplasm 2. Cell v	vall 3. Nucleus	4. Central vacuole
2. Which is the unit of rate of work		
1. W 2. J	3. Js	4. N
3. Identify the elements found in a bio	ological molecule having deoxyribone	cleotide as its building unit.
1. C H O 2. C H O	O N 3. C H O N P	4. C H O N S
4. The incorrect statement regarding a	tissue which is commonly found in the	ne free surface of internal and
external part of verbrates.		
1. Cells are found on the base	ement membrane.	
2. Composed of single or mu	ltiple layers.	
3. Cells are tightly packed an	d posses nerve supply.	
4. Show rhythmic movement		
5. The number of atomic mole of oxyg	gen found in 1 mole of CaCO ₃	
1. 1 2. 2	3.3	4. 5
6. Calculate the force acts on an objec	t of mass 200g and moves with the ac	celeration of 5 ms ⁻²
1. 1N 2. 1000	N 3. 0.04 N	4. 25 N
Answer question 7, 8 based on the	chemical equation.	
$XAl_{(S)} + Y$	$O_{2(g)} \rightarrow Z A l_2 O_{3(g)}$	
7. The correct value of X, Y, Z respec	tively	
1. 2, 3, 2 2. 4, 3, 2	3.3,3,2	4. 1, 2, 3
8. The above reaction belongs to which	ch type of chemical reaction.	
1. Combination reaction	2. Single displacement	
3. Decomposition reaction	4. ,Double displacemen	nt
9. The disease caused due to mutation	1	

3. Heamophillia

4. Poly dactyly

1. Colour blindness 2. Albinism

10. Which one can't be a r 1. The kinetic energy 2. The vibration of ate 3. The transmission o 4. Forward movemen	of free electrons oms of metal rod f energy among ato	ms due to collision	od.
11. An organism found in a • Unicellular, mu • Having chitinu The organism belongs 1. Protista	ılticellular. s cell wall and orga	nized nucleus.	ures 4. Plantae
12. Element X Shows the v 1. X ₂ (PO ₄) ₃	valency of 2. The co $2. X_3(PO_4)_2$	orrect chemical formu 3. XPO ₄	al of the phosphate of X 4. $X_2(PO_4)_2$
13. The reproductive syste The letters which den Implantation, Parturit	ote ovum developm	nent, Fertilization	SQ
1. P,Q,R,S 3. Q, S, R, P	2 4	2. Q, R, S, P 3. S, Q, R, P	P
14. 250cm ³ Ethanol solution solute is	on was prepared by	adding 25cm ³ distille	ed water to Ethanol The volume fraction o
1. 0.01	2. 0.1	3. 0.2	4. 0.5
2. The velocity of wa3. Radio waves have4. The Gamma rays a	found in electromag ves changes. longest wave length re generated by bor wing has low pH v	gnetic spectrum differ a and have the highest abarding electrons on alue of the given solu	t energy. n metal targets. attions having concentration of
17. Find the momentum of 1. 0.04 kg i			e velocity of 4 ms ⁻¹ 3. 2.5 kg ms ⁻¹ 4. 0.25 kg ms ⁻¹
18. The substance reabsorconvoluted tube of No. 1. Glucose 3. vitamin B		a healthy adult while 2. plasma Proto 4. water	le the glomerular filtrate moves along the
19. The Number of molecu		NaOH H - 1, O - 16)	
1. $\frac{20}{40} \times 6.022 \times 10^{23}$	2. $\frac{40}{20} \times 6.022 \times 1$	$10^{23} 3. \frac{6.022 \times 40 \times 2}{40 \times 2}$	$\frac{10^{28}}{20} \qquad \qquad 4. 40 \times 20 \times 6.022 \times 10^{23}$
20. If the perpendicular rea 1. Increase	action force increase 2. decrea		ces the fractional force of it will change 4. decrease then increase
21. Optical instrument used1. Plane Mirror3. Convex mirror	d to monitor the sho	ops for security purpo 2. Concave min 4. Biconvex les	rror

22. Which one is incorrect regarding all given molecules.
CCl ₄ , PCl ₅ , NH ₃

- 1. The bonds are formed by sharing of electrons.
- 2. There is no double bond between atoms of molecules.
- 3. The octet is observed in the central atom of molecules.
- 4. Lone pair of electron are found in atoms which make bond.
- 23. The information of an element is given below
 - Allotrophs are found naturally.
 - Burns with blue flame.
 - Used as fungicide.

The element is

- 1. Aluminium
- 2. Carbon
- 3. Sulphur
- 4. Boron
- 24. Consider the statements regarding Displacement time graph.
 - A) Gradient of the graph is acceleration
 - B) The rate of change of displacement is 3 ms⁻¹
 - C) The displacement in 5 seconds is 37.5m.

Correct statement / statements

1. A only

2. B only

3. A, C only

- 4. B, C only
- 25. Which one does not related to lymphatic system.
 - 1. Lymphatic vessel

2. Lacteal

3. Lymph nodes

- 4. Blood Capillaries
- 26. When solid NH₄Cl is dissolved in water what can be observed
 - 1. Temperature increase

2. Temperature decrease

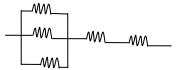
3. Formation of deposits

- 4. Colour change
- 27. 'm' mass of Aluminium reached the temperature of 110°C from 30°C when 14400 J heat was supplied to it Calculate 'm' (heat capacity of Aluminium is 900 J kg⁻¹°C⁻¹)
 - 1. 200 g
- 2. 2 kg
- 3. 0.55 kg
- 4. 8/55 kg
- 28. The vitamin and mineral needed for blood clotting is respectively
 - 1. Vitamin K, Phosporus

2. Vitamin B, Pottasium

3. Vitamin K. Calcium

- 4. Vitamin E, Phosporus
- 29. 3Ω Resistors were connected as shown in the figure . The value of equalent resistance is
 - 1. 15 Ω
- 2. 5 Ω
- 3. 7 **Ω**
- 4. 10 Ω



- 30. The salt which deposits when the concentration of sea water increases 4 times greater than the initial concentration in saltern is
 - 1. CaCO₃
- 2. NaCl

- 3. CaSO₄
- 4. MgSO₄

- 31. One of the application of transmission of liquid pressure is
 - 1. Hydrometer
- 2. Submarine
- 3. Vaccum pump
- 4. Hydraulic Jack

32. Same amount of H₂O₂ was taken in to the similar test tubes X, Y, Z and small amount of H₂O₂, H₂SO₄ were added into them at the same time.

Which is the correct order of gas release.

- 1. X < Y < Z
- 3. Y < X < Z

- 2. Z < Y = X
- 4. Z< X< Y





 H_2O_2

H2SO4

 H_2O_2 $+MnO_2$

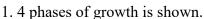
- 33. The type of cell of phloem tissue found only in dicot plant.
 - 1. Phloem parenchyma

- 2. Phloem fibre
- 3. Companion cell 4. Sieve tube element
- 34. Reducing agent of Iron in Iron extraction
 - 1. C

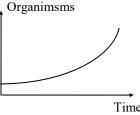
- 3. CO₂
- 4. CaCO₃
- 35. P, Q are the objects with the mass of 1kg, 2kg respectively Both were released from the same height and reached the ground. Consider the statements,
 - A) Both reached the ground with the same velocity.
 - B) A reached first.
 - C) Both reached at the same time.

Correct statement / Statements.

- 1. A only
- 2. B only
- 3. AB only
- 4. A, C only
- 36. The population increase with the time is shown here Correct statement about the graph.



- 2. The growth reaches stability at the end.
- 3. It shows Zigma shape.
- 4. It shows rapid increase of growth.



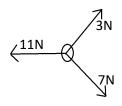
Time

- 37. An example for couple of force
 - 1. Detach a nut by a spanner
- 2. Detach a nail by nail hammer

3. Opening the door

- 4. Open lock by key
- 38. In which plant the pollination occurs by insect
 - 1. Paddy
- 2. Hydrilla
- 3. Lotus
- 4. Corn

39.



3N, 7N, 11N are the forces act on a ring as shown in the figure. Resultant force of 3N, 7N forces is 5N. This Resultant force acts in same line of action of 11N force in opposite direction. What is the resultant force now

- 1. 5N
- 2.16N

- 3.6N
- 4.11N

- 40. Which one is a renewable source of energy
 - 1. Nuclear energy
- 2. Sea waves
- 3. Chemical cell
- 4. Coal

(2x40 = 80 marks)