



OSDAV Public School, Kaithal

May Test, 2024

Class :X

Subject : Science

Set- A

Time: 30 minutes

M.M. : 20

General Instructions:-

All questions are compulsory.

Q. No		Marks
1	Name the substance formed when quick lime react with water. (a) Calcium oxide (b) lime stone (c) lime water (d) calcium carbonate	1
2	A white colour substance when heated to give a brown colour gas identify the gas. (a) oxygen gas (b) nitrogen gas (c) carbon di oxide (d) nitrogen di oxide	1
3	During respiration oxygen react with to produce energy (a) nitrogen (b) sulphur (c) magnesium (d)glucose	1
4	Find the metal which will displace Zn from ZnSO ₄ solution. (a) Ca (b) fe (c) Pb (d) Ag	1
5	Substance which is precipitated when Barium chloride react with sodium sulphate is (a)sodium chloride (b) barium iodide (c) barium chloride (d) barium sulphate	1
6	$ZnO + C \rightarrow Zn + CO$ The substance reduced is : (a) CO (b) ZnO (c) C (d) Zn	1
7	The chemical reaction between copper and oxygen can be regarded as (a) Displacement reaction (b) decomposition reaction (c) combination reaction (d) double displacement reaction	1
8	Mid point of reflecting surface of spherical mirror is called. (a) Focus (b) optical center (c) pole (d) radius	1
9	An object is placed at focus of the concave mirror where is the image formed (a) at c (b) at f (c) beyond c (d) at infinity	1
10	Name the mirror used in toarch light (a) Concave mirror (b) Convex mirror (c) Plane mirror (d) none	1
11	Magnification produce by convex mirror is (a)1 (b) -1 (c) +2 (d) +1/2	1
12	In case of refraction of light through glass slab which one is correct (a) $i=e<r$ (b) $i=r>e$ (c) $i=e>r$ (d) $i=e=r$	1
13	Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below: (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true. Assertion (A): Covex mirror form real and inverted image . Reason (R) : convex mirror is known as diverging mirror.	1
14	The enzyme responsible for digestion of Proteins in small ingestion is and it is part of Juice. A. Pepsin, pancreas. C. Trypsin,Pancreas. B. Pepsin,Gastric. D. Trypsin, Gastric	1

15	In amoeba, food is digested in the: A. food vacuole. B. mitochondria. C. pseudopodia. D. chloroplast	1
16	What are the products obtained by anaerobic respiration in plants? A. Lactic acid + Energy. C. Carbon dioxide + Water + Energy B. Ethanol + Carbon dioxide + Energy. D. Pyruvate	1
17	When a few drops of iodine solution are added to rice water, the solution turns blue- black in colour. This indicates that rice water contains: A. fats. B. complex proteins. C. starch. D. simple proteins	1
18	Oxygen evolved during photosynthesis comes from A. water. B. Soil. C. Atmosphere D. CO ₂ .	1
19	Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below: (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true. Assertion (A): Rings of cartilage are present in the throat, Reason (R) : These ensure that the air-passage does not collapse	1
20	Site of glycolysis is A. Mitochondria. B. Cytoplasm. C. E.R. D. Ribosomes	1



Q.No		MarkS
1	<p>Following question consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:</p> <p>(a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true.</p> <p>Assertion (A): Concave mirror form real and inverted image . Reason (R) : Concave mirror is known as diverging mirror.</p>	1
2	<p>Magnification produced by the plane mirror .</p> <p>(a) 1 (b) more than 1 (c) less than 1 (d) zero</p>	1
3	<p>A student has traced the path of ray of light through a glass slab as follows. If you are asked to label 1,2,3,4 the correct sequence of labelling $\angle i$, $\angle r$, $\angle e$ and lateral displacement respectively is</p> <p>(a) 2,1,3,4 (b) 1,2,3,4 (c) 1,3,2,4 (d)1,3,4,2</p>	1
4	<p>Name the mirror used in rear view mirror</p> <p>(a)Concave mirror (b) Convex mirror (c) Plane mirror (d) none</p>	1
5	<p>A ray of light is moving from optically denser medium to optically rare medium which of the following is correct for this condition</p> <p>(a) $i > r$ (b) $i < r$ (c) $i = r$ (d) none</p>	1
6	<p>An object is placed at C of the concave mirror where is the image formed</p> <p>(a) at c (b) at f (c) beyond c (d) at infinity</p>	1
7	<p>Find the metal which will displace Mg from $MgSO_4$ solution.</p> <p>(a) K (b) fe (c) Pb (d) Ag</p>	1
8	<p>When lime stone is heated it will give quick lime and</p> <p>(a) C (b) O_2 (c) N_2 (d) CO_2</p>	1
9	<p>Find the gas evolved when Zn react with H_2SO_4 solution.</p> <p>(a) H_2 (b) O_2 (c) N_2 (d) CO_2</p>	1
10	<p>Burning of natural gas is an example of</p> <p>(a) Combination reaction (b) decomposition reaction (c) displacement reaction (d) exothermic reaction</p>	1
11	<p>During electrolysis of water the gas evolved at anode is</p> <p>(a) O_2 (b) N_2 (c) H_2 (d) CO_2</p>	1

12	The chemical reaction between sodium sulphate and barium chloride can be regarded as (a) Displacement reaction (b) decomposition reaction (c) combination reaction (d) double displacement reaction	1															
13	In the reaction of iron with copper sulphate solution: $\text{CuSO}_4 + \text{Fe} \longrightarrow \text{Cu} + \text{FeSO}_4$ Which option in the given table correctly represents the substance reduced and the oxidising agent? <table border="1"> <thead> <tr> <th>Option</th> <th>Substance Oxidized</th> <th>Reducing Agent</th> </tr> </thead> <tbody> <tr> <td>(a)</td> <td>Fe</td> <td>Fe</td> </tr> <tr> <td>(b)</td> <td>Fe</td> <td>FeSO₄</td> </tr> <tr> <td>(c)</td> <td>Cu</td> <td>Fe</td> </tr> <tr> <td>(d)</td> <td>CuSO₄</td> <td>CuSO₄</td> </tr> </tbody> </table>	Option	Substance Oxidized	Reducing Agent	(a)	Fe	Fe	(b)	Fe	FeSO ₄	(c)	Cu	Fe	(d)	CuSO ₄	CuSO ₄	1
Option	Substance Oxidized	Reducing Agent															
(a)	Fe	Fe															
(b)	Fe	FeSO ₄															
(c)	Cu	Fe															
(d)	CuSO ₄	CuSO ₄															
14	The enzyme responsible for digestion of Proteins in stomach is and it is part of Juice. A. Pepsin, pancreas. C. Trypsin, Pancreas. B. Pepsin, Gastric. D. Trypsin, Gastric	1															
15	In which mode of nutrition an organism derives its food from the body of another living organism without killing it? A. Saprotrophic nutrition. C. Parasitic nutrition B. Holozoic nutrition. D. Autotrophic nutrition	1															
16	What are the products obtained by aerobic respiration in plants? A. Lactic acid + Energy. C. Carbon dioxide + Water + Energy B. Ethanol + Carbon dioxide + Energy. D. Pyruvate	1															
17	Which of the following events in the mouth cavity will be affected if salivary amylase is lacking in the saliva? A. Starch breaking down into sugars. C. Proteins breaking down into amino acids. B. Absorption of vitamins. D. Fats breaking down into fatty acids and glycerol.	1															
18	The opening and closing of the stomatal pore depend upon: A. Oxygen. C. Temperature. B. Water in the guard cells. D. Concentration of CO ₂	1															
19	Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below: (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true. Assertion (A): Breathing rate of aquatic animals is lower than terrestrial animals. Reason (R): There is less amount of oxygen in water as compared to atmosphere.	1															
20	When air is blown from mouth into a test-tube containing lime water, the lime water turned milky due to the presence of A. oxygen B. carbon dioxide. C. nitrogen D. water vapour	1															



OSDAV Public School
Class : X
Subject : Science (Answer key)

Set : A

Q.No.	Questions	Marks
1	C. Lime water	1
2	D. Nitrogen dioxide	1
3	D. Glucose	1
4	A. Ca	1
5	D. Barium sulphate	1
6	B. ZnO	1
7	C. Combination reaction	1
8	C. Pole	1
9	D. Infinity	1
10	A. Concave mirror	1
11	D. $1/2$	1
12	C. $I=e>r$	1
13	(d)A is false but R is true	1
14	D. Trypsin, Pancreas	1
15	A. Food vacuole	1
16	B. Ethanol + carbon dioxide and Energy	1
17	C. Starch	1
18	A. Water	1
19	A. Both true with correct explanation	1
20	B. Cytoplasm	1



OSDAV Public School
Class : X
Subject : Science (Answer key)

Set : B

Q.No.	Questions	Marks
1	C. A is true R is false	1
2	A. 1	1
3	B. 1,2,3,4	1
4	B. Convex mirror	1
5	B. $I < r$	1
6	A. at c	1
7	A. K	1
8	D. Carbon dioxide	1
9	A. Carbon dioxide	1
10	D. Exothermic reaction	1
11	A. Oxygen	1
12	D. Double displacement reaction	1
13	a or d	1
14	B. Pepsin, Gastric	1
15	C. Parasitic nutrition	1
16	C. Carbon dioxide + Water + Energy	1
17	A. Starch breaking down into sugars	1
18	B. Water in guard cells	1
19	d. Assertion is false but reason is true	1
20	B. Carbon dioxide	1

