

INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST



SCIENCE

CLASS: X

Sub. Code: 086

Time Allotted: 50 mts.

01.06.2022

Max. Marks: 20

GENERAL INSTRUCTIONS:

1. All Questions are compulsory.
2. Draw Diagram wherever necessary

Physics

1. What sign (+ve or -ve) is given to the focal length of a concave mirror? 1
2. Define the term magnification and write its unit. 1
3. An object is placed at the center of curvature of focal length 10cm. Find out distance between the image and pole. 1
4. A concave mirror produces three times (enlarged) magnified real image of an object placed at 10cm in front of it. Where is the image located? 2
5. An object is placed at a distance of 10cm from a convex mirror of focal length 15cm. Find the position and nature of the image? 2

Chemistry

6. What is the color of the precipitate formed during the double displacement reaction between aqueous solution of KI and $Pb(NO_3)_2$? 1
(a) Green (b) Orange (c) White (d) Yellow
7. In a Redox reaction _____ and _____ will happen simultaneously. 1

8. Direction: Choose the correct option 1
- (A) Both assertion and reason are correct, and reason is the correct explanation for assertion.
- (B) Both assertion and reason are correct, but reason is not the correct explanation for assertion.
- (C) Assertion is correct, but reason is incorrect.
- (D) Assertion is incorrect but reason is correct
- Assertion: After whitewashing the walls, a shiny white finish on walls is obtained after two to three days.
- Reason: CaO reacts with CO₂ to form Ca(HCO₃)₂ which gives shiny white finish.
9. Consider the reaction: 2
- $$\text{MnO}_2 + \text{HCl} \rightarrow \text{MnCl}_2 + \text{H}_2\text{O} + \text{Cl}_2$$
- (a) Balance the equation
- (b) Find the substance oxidized and reduced.
10. An element X is attacked by atmospheric moist air to give an undesirable product of Y 2
which is a hydrated form of its oxide.
- (a) Find X and Y
- (b) What is the special name given to Y
- (c) Write a balanced equation for this process.

Biology

11. Mention the role of mucus in the stomach. 1
12. The villi are richly supplied with blood vessels. Give reason. 1
13. Which is the largest digestive gland in the human body? What is its function? 2
14. Define parasitic mode of nutrition. Give one example. 2

End of the Question Paper

INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST

SCIENCE

CLASS: X

Sub. Code: 086

Time Allotted: 50 mts.

01.06.2022

Max. Marks: 20

GENERAL INSTRUCTIONS:

1. All Questions are compulsory.
2. Draw Diagram wherever necessary

Physics

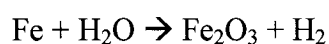
1. Define the term magnification and write its unit. 1
2. What sign (+ve or -ve) is given to the focal length of a convex mirror? 1
3. An object is placed at the center of curvature of focal length 10cm. Calculate distance between the image and pole. 1
4. A concave mirror produces three times (enlarged) magnified real image of an object placed at 10cm in front of it. Where is the image located? 2
5. An object is placed at a distance of 10cm from a convex mirror of focal length 15cm. Find the position and nature of the image? 2

Chemistry

6. The color change observed when an aqueous solution of copper sulphate is treated with iron material is 1
 - (a) Green to Blue
 - (b) Brown to Green
 - (c) Blue to Light green
 - (d) Blue to colorless

7. In a redox reaction _____ and _____ will happen simultaneously. 1
8. Direction: Choose the correct option 1
- (A) Both assertion and reason are correct, and reason is the correct explanation for assertion.
- (B) Both assertion and reason are correct, but reason is not the correct explanation for assertion.
- (C) Assertion is correct, but reason is incorrect.
- (D) Assertion is incorrect but reason is correct
- Assertion (A): Photosynthesis is as an endothermic reaction.
Reason (R): Energy is released in the process of photosynthesis.

9. Consider the reaction: 2



- (a) Balance the equation
- (b) Find the substance which acts as oxidizing and reducing agent.
10. A brown colored element X is attacked by atmospheric moist air and a gas Y to give an undesirable product of Z which is of bluish green colored substance. 2
- (a) Find X, Y and Z.
- (b) Write a balanced equation of this process.

Biology

11. Mention the role of hydrochloric acid in the stomach. 1
12. Name the enzyme secreted by salivary glands. 1
13. In human alimentary canal, name the site of complete digestion of food. What are the final products of proteins and carbohydrates after their digestion? 2
14. Give reason. 2
- (a) The villi are richly supplied with blood vessels.
- (b) Herbivores eating grass need a longer small intestine than carnivores.

End of the Question Paper

INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST



SCIENCE

CLASS: X

Sub. Code: 086

Time Allotted: 50 mts.

01.06.2022

Max. Marks: 20

GENERAL INSTRUCTIONS:

1. All Questions are compulsory.
2. Draw Diagram wherever necessary.

Physics

1. Define the term magnification and write its unit. 1
2. What sign (+ve or -ve) is given to the focal length of a convex mirror? 1
3. An object is placed at the center of curvature of focal length 10cm. Calculate distance between the image and pole. 1
4. A concave mirror produces three times (enlarged) magnified real image of an object placed at 10cm in front of it. Where is the image located? 2
5. An object is placed at a distance of 10cm from a convex mirror of focal length 15cm. Find the position and nature of the image? 2

Chemistry

6. Find the color of the product formed when brown colored copper metal is strongly heated in a flame? 1
(a) Bluish green (b) Black (c) Reddish brown (d) Greenish yellow.
7. In a redox reaction _____ and _____ will happen simultaneously. 1

8. Direction: Choose the correct option 1
- (A) Both assertion and reason are correct, and reason is the correct explanation for assertion.
- (B) Both assertion and reason are correct, but reason is not the correct explanation for assertion.
- (C) Assertion is correct, but reason is incorrect.
- (D) Assertion is incorrect but reason is correct

Assertion: The balancing of chemical equation is based on law of conservation of mass.

Reason: Total mass of reactants must be equal to total mass of the products.

9. Consider the reaction: 2
- $$\text{MnO}_2 + \text{HCl} \rightarrow \text{MnCl}_2 + \text{H}_2\text{O} + \text{Cl}_2$$
- (a) Balance the equation
- (b) Find the substance oxidized and reduced.

10. A grey colored element X is attacked by atmospheric gas Y to give a black coating of product Z. This process is generally known as tarnishing. 2
- (a) Find X, Y and Z.
- (b) Write a balanced equation of this process.

Biology

11. Mention the role of pepsin enzyme in the stomach. 1
12. Name the gland which secretes 1
- (a) Bile (b) Trypsin
13. What is peristaltic movement? What are the final products after digestion of proteins and carbohydrates? 2
14. (a) Which part of the alimentary canal has villi? Why? 2
- (b) Which enzyme is present in saliva? Write its function.

End of the Question Paper