# 1044-B

## Class 10th Quarterly Examination 2022-23
## SCIENCE-200
### (English Medium)

[Total No. of Questions: 22]  [Total No. of Printed Pages: 08]

[Time: 03 Hours]  [Maximum Marks: 75]

**Instructions-**

(1) Attempt all the questions.

(2) Question number 1 to 4 are allotted 30 marks. Multiple choice questions 8 marks, match the correct pairs 8 marks, fill in the blanks 7 marks and write answer in one word or sentence 7 marks.

(3) Question number 5 to 16 are allotted 2 marks each. Write the answers in about 30 words each.

(4) Question number 17 to 19 are allotted 3 marks each. Write the answers in about 75 words each.

(5) Question number 20 to 22 are allotted 4 marks each. Write the answers in about 120 words.

(6) Draw neat and clean labelled diagrams, wherever necessary.

**Q.1** Choose and write the correct option –

(i) The reaction in which food materials are broken down into carbon dioxide and water are which type of reaction?

(a) Exothermic reaction (b) Combination reaction

(c) Endothermic reaction (d) Vaporisation reaction

(ii) $Fe_2O_3 + 2Al \rightarrow Al_2O_3 + 2Fe$. The given reaction is –

(a) Addition reaction

(b) Dissociation reaction

(c) Double displacement reaction

(d) Displacement reaction

(iii) The substances that take part in any chemical reaction are called –

(a) Product (b) Reactant

(c) Compound (d) Mixture

(iv) Addition of $H_2$ and loss of $O_2$ is called as –

(a) Reduction reaction (b) Redox reaction

(c) Oxidation reaction (d) Corrosion reaction

(v) Which material is used for plastering broken bones?

(a) Washing soda (b) Baking soda

(c) Plaster of Paris (d) Brine

(vi) The acid found in curd is –

(a) Citric acid (b) Oxalic acid

(c) Lactic acid (d) Methanoic acid

(vii) Which substance is used in making cakes and bread?

(a) Washing soda (b) Baking soda

(c) Plaster of Paris (d) Brine

(viii) Which medicine is used to treat indigestion?

(a) Antibiotic (b) Analgesic

(c) Antacid (d) Antiseptic

**Q.2** Fill in the blanks – [1×7=7]

(i) ................... is responsible for oxygen transport in human body.

(ii) Transport of water in plants takes place through ............. tissue.

(iii) Spinal and cranial nerves jointly forms.............nervous system.

(iv) The protein digesting enzyme secreted from pancreas is....................m....................

(v) The centre of reflex action in human is ................................. .

(vi) The thinking part of human brain is ................................. .

(vii) The gap between two nerve cells is called ............................. .

**Q.3** Write the answers in one word or sentence – [1×7=7]

(i) Write the chemical name of black layer deposited over silver jewellery.

(ii) Write the popular name of $CaOCl_2$.

(iii) Through which artery deoxygenated blood flows in human body?

(iv) What is the functional unit of human excretory system?

(v) Deficiency of which hormone causes Diabetes?

(vi) On a plane mirror, if an incident ray makes an angle of 30 degree, then what will be the value of reflected ray?

(vii) What is the measure of the angle between two faces of a prism?

**Q.4** Match the correct pairs —

| Column (A) | Column (B) |
|---|---|
| (i) Disease of eye | (a) Passing of light across dense forest |
| (ii) Tyndall effect | (b) Spectrum |
| (iii) Blue colour of sky | (o) Atmospheric refraction |
| (iv) Twinkling of stars | (d) Low vision |
| (v) Natural spectrum | (e) Scattering |
| (vi) Convex lens | (f) Light ray |
| (vii) A straight line path | (g) Power of lens |
| (viii) Dioptre | (h) thick at centre and thin at sides |

**Q.5** Why respiration is called exothermic reaction?

## OR

Why silver chloride is kept in dark coloured bottles?

**Q.6** Write two characteristics of a chemical reaction.

## OR

Write two methods to prevent rancidity in food particles.

Q.7  Write the formula of –  [2]

(i)  Plaster of Paris

(ii)  Slaked lime

## OR

Write two industrial uses of washing soda.

Q.8  Write two differences between acid and base.  [2]

## OR

What is acid rain?

Q.9  Where is the process of photosynthesis takes place in plants? Write

its chemical equation.  [2]

## OR

Define heterotrophic nutrition.

Q.10  Write two differences between blood and lymph.  [2]

## OR

Write two functions of blood.

Q.11  Why is iodised salt recommended for use?  [

## OR

Where is the process of absorption gets completed after digestion in

human body?

**Q.12** Write two example of reflex action in human. **[2]**

<div align="center">**OR**</div>

Write two importance of plant hormones for plants.

**Q.13** Write two properties of diverging lens. **[2]**

<div align="center">**OR**</div>

Write two properties of converging lens.

**Q.14** Write two applications of convex mirror. **[2]**

<div align="center">**OR**</div>

What is refraction?

**Q.15** Describe the process of dispersion. **[2]**

<div align="center">**OR**</div>

Stars glitter but planets did not. Why?

**Q.16** Which type of image is formed at retina? **[2]**

<div align="center">**OR**</div>

What is far-sightedness (hypermetropia)?

**Q.17** What is Redox reaction? Write any one chemical equation showing oxidation and reduction. **[3]**

<div align="center">**OR**</div>

When carbon dioxide gas flowing in lime water, lime water gets milky. Why?

Q.18 Write three differences between aerobic and anaerobic respiration.

**OR**

Why mitochondria is called power house of the cell?

Q.19 A concave mirror forms three times magnifying real image of an object which is kept 10 cm distance in front of it. What is the distance of image from mirror? [3]

**OR**

An object of height 5 cm is kept in front of a convex mirror of radius of curvature 30 cm. Distance of object and mirror is 20 cm. Find the position, nature and size of the image.

Q.20 Write two uses each of washing soda and baking soda. [4]

**OR**

What is a salt? Give three examples.

[4]

Q.21 Draw labelled diagram of human brain.

**OR**

Describe the position of any four endocrine glands with the help of labelled diagram.

Q.22 In which direction spectrum is formed? What is the position of red colour in the spectrum? **[4]**

<div align="center">

**OR**

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What is short-sightedness? Write its causes and prevention. Illustrate it with labelled diagram.

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