

SUMMER BIOLOGY HOLIDAY HOMEWORK

BIOLOGY Summer Vacation HW

STD 8

1. GIVE REASON FOR THE FOLLOWING STATEMENTS.

- a. Xylem cells are basically non-living.
- b. Parenchyma has no intercellular spaces.
- c. Muscle cells are contractile.
- d. The cells are the fundamental unit of life.
- e. Permanent tissues are specialised.
- f. Meristematic tissues are responsible for growth.
- g. Vascular bundles are conducting tissues.
- h. Protoplasm is the life-giving substance present in the cell.
- i. Guard cells are kidney-shaped.
- j. Chloroplast carries out photosynthesis.
- k. Beetroot leaves its colour when put in water.
- l. Vacuoles are absent in meristematic tissue.

2. Draw all the diagrams of chapters on *cell* and *plant tissues* in your biology exercise notebook. All the diagrams should be neatly labelled with a pencil.

3. Revise and learn all the notes and question answers of the above chapters and prepare for the unit test.

Don Bosco Academy, Patna

Class VIII Chemistry Holiday Homework 2024-2025

1. Learn the names, symbols and valency of the radicals given on page no. 9 and 10.
2. Learn the appendix 2 – “Do you know?” (Page No. 220)
3. Learn the appendix 4 – Some useful compounds and formula. (Page No. 227)
4. Find the formula of the following compounds by Criss - Cross method.

Q1. Write the formulae of the following salts.

- | | |
|--------------------------|--|
| (i) Sodium chloride | (ii) Sodium sulphate |
| (iii) Potassium nitrate | (iv) Potassium nitrite |
| (v) Cupric sulphate | (vi) Mercury (II) nitrate/mercuric nitrate |
| (vii) Sodium chlorate | (viii) Calcium silicate |
| (ix) Ammonium phosphate | (x) Zinc nitrate |
| (xi) Calcium oxalate | (xii) Sodium acetate |
| (xiii) Hydrogen peroxide | (xiv) Cupric hydroxide |
| (xv) Iron (III) sulphate | (xvi) Ammonium acetate |
| (xvii) Lead chromate | (xviii) Calcium carbide |
| (xix) Aluminium carbide | (xx) Sodium bicarbonate. |

5. Balance the following chemical equations

Q.2. Balance the following chemical equations.

- | | |
|---|---|
| (i) $\text{N}_2 + \text{O}_2 \longrightarrow \text{NO}$ | (ii) $\text{NO} + \text{O}_2 \longrightarrow \text{NO}_2$ |
| (iii) $\text{NO}_2 + \text{H}_2\text{O} + \text{O}_2 \longrightarrow \text{HNO}_3$ | (iv) $\text{Pb}(\text{NO}_3)_2 \xrightarrow{\Delta} \text{PbO} + \text{NO}_2 + \text{O}_2$ |
| (v) $\text{AgNO}_3 \xrightarrow{\Delta} \text{Ag} + \text{NO}_2 + \text{O}_2$ | (vi) $\text{Ag}_2\text{CO}_3 \xrightarrow{\Delta} \text{Ag} + \text{CO}_2 + \text{O}_2$ |
| (vii) $\text{C}_{22}\text{H}_{46} + \text{Cl}_2 \longrightarrow \text{C} + \text{HCl}$ | (viii) $\text{CuSO}_4 + \text{NaOH} \longrightarrow \text{Na}_2\text{SO}_4 + \text{Cu}(\text{OH})_2$ |
| (ix) $\text{NaNO}_3 \xrightarrow{\Delta} \text{NaNO}_2 + \text{O}_2$ | (x) $\text{KNO}_3 \xrightarrow{\Delta} \text{KNO}_2 + \text{O}_2$ |
| (xi) $\text{NH}_3 + \text{Cl}_2 \longrightarrow \text{NCl}_3 + \text{HCl}$ | (xii) $\text{NH}_3 + \text{Cl}_2 \longrightarrow \text{NH}_4\text{Cl} + \text{N}_2$ |
| (xiii) $\text{PbO} + \text{HNO}_3 \longrightarrow \text{Pb}(\text{NO}_3)_2 + \text{H}_2\text{O}$ | (xiv) $\text{NaOH} + \text{Cl}_2 \longrightarrow \text{NaCl} + \text{NaClO} + \text{H}_2\text{O}$ |
| (xv) $\text{NaOH} + \text{Cl}_2 \longrightarrow \text{NaCl} + \text{NaClO}_3 + \text{H}_2\text{O}$ | (xvi) $\text{CH}_4 + \text{O}_2 \longrightarrow \text{CO}_2 + \text{H}_2\text{O}$ |
| (xvii) $\text{C}_2\text{H}_6 + \text{O}_2 \longrightarrow \text{CO}_2 + \text{H}_2\text{O}$ | (xviii) $\text{C}_2\text{H}_4 + \text{O}_2 \longrightarrow \text{CO}_2 + \text{H}_2\text{O}$ |
| (xix) $\text{C}_2\text{H}_2 + \text{O}_2 \longrightarrow \text{CO}_2 + \text{H}_2\text{O}$ | (xx) $\text{Na} + \text{H}_2\text{O} \longrightarrow \text{NaOH} + \text{H}_2$ |
| (xxi) $\text{Pb}_3\text{O}_4 \xrightarrow{\Delta} \text{PbO} + \text{O}_2$ | (xxii) $\text{PbO}_2 \xrightarrow{\Delta} \text{PbO} + \text{O}_2$ |
| (xxiii) $\text{Mg} + \text{HNO}_3 \longrightarrow \text{Mg}(\text{NO}_3)_2 + \text{H}_2$ | (xxiv) $\text{NH}_3 + \text{CuO} \longrightarrow \text{N}_2 + \text{H}_2\text{O} + \text{Cu}$ |
| (xxv) $\text{NH}_3 + \text{O}_2 \longrightarrow \text{N}_2 + \text{H}_2\text{O}$ | (xxvi) $\text{H}_2\text{S} + \text{Cl}_2 \longrightarrow \text{HCl} + \text{S}$ |
| (xxvii) $\text{H}_2\text{S} + \text{SO}_2 \longrightarrow \text{H}_2\text{O} + \text{S}$ | (xxviii) $\text{H}_2\text{S} + \text{H}_2\text{SO}_4 \longrightarrow \text{H}_2\text{O} + \text{SO}_2 + \text{S}$ |
| (xxix) $\text{S} + \text{HNO}_3 \longrightarrow \text{H}_2\text{SO}_4 + \text{NO}_2 + \text{H}_2\text{O}$ | (xxx) $\text{C} + \text{HNO}_3 \longrightarrow \text{CO}_2 + \text{NO}_2 + \text{H}_2\text{O}$ |
| (xxxi) $\text{P} + \text{HNO}_3 \longrightarrow \text{H}_3\text{PO}_4 + \text{NO}_2 + \text{H}_2\text{O}$ | (xxxii) $\text{NaCl} + \text{H}_2\text{SO}_4 \longrightarrow \text{Na}_2\text{SO}_4 + \text{HCl}$ |
| (xxxiii) $\text{Cu} + \text{H}_2\text{SO}_4 \longrightarrow \text{CuSO}_4 + \text{H}_2\text{O} + \text{SO}_2$ | (xxxiv) $\text{KClO}_3 \longrightarrow \text{KCl} + \text{O}_2$ |
| (xxxv) $\text{FeS}_2 + \text{O}_2 \longrightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2$ | |

Q.3. Write the formulae and balance the following chemical equations:

- (i) Zinc + dilute Sulphuric acid \longrightarrow Zinc sulphate + Hydrogen
- (ii) Copper + conc. Nitric acid \longrightarrow Copper nitrate + Nitrogen dioxide + Water
- (iii) Copper + dil. Nitric acid \longrightarrow Copper nitrate + Nitric oxide + Water
- (iv) Ammonium chloride + Calcium hydroxide \longrightarrow Calcium chloride + Water + Ammonia
- (v) Ammonia + Oxygen \longrightarrow Nitric oxide + Water
- (vi) Manganese (IV) oxide + conc. Hydrochloric acid \longrightarrow Manganese (II) chloride + Water + Chlorine
- (vii) Potassium dichromate + conc. Hydrochloric acid \longrightarrow Potassium chloride
+ Chromium chloride + Water + Chlorine
- (viii) Sulphur dioxide + Oxygen \longrightarrow Sulphur trioxide
- (ix) Zinc + Water \longrightarrow Zinc oxide + Hydrogen
- (x) Aluminium + dil. Hydrochloric acid \longrightarrow Aluminium chloride + Hydrogen
- (xi) Magnesium + Nitrogen \longrightarrow Magnesium nitride
- (xii) Magnesium nitride + Water \longrightarrow Magnesium hydroxide + Ammonia
- (xiii) Copper hydroxide $\xrightarrow{\Delta}$ Copper oxide + Water
- (xiv) Potassium chlorate $\xrightarrow{\Delta}$ Potassium chloride + Oxygen
- (xv) Zinc sulphide + Oxygen \longrightarrow Zinc oxide + Sulphur dioxide

Computer Summer Holiday Work Std 8

1. Learn Chapter 1

2. Learn Chapter 2

3. Make a proper table of Data Types.

STD 8

Holiday Homework: Language:

Revise the topics:

Verbs – Kinds of Verbs

Finites & Non-Finites

Tenses

Informal Letter Writing:

Write a letter to your friend regarding your plans on spending summer vacation.

Guided English Book –

Language structure of chapters: 2, 3, 8, 9 & 11

Learn Prepositions – 1-25

Read News Paper daily

Holiday Homework : Literature :

Revise the Prose & Poems

Learn the question answers

Learn the vocabulary from each Prose & Poem

Learn the word meanings

2024-2025

CLASS - 8 HINDI

ग्रीष्मावकाश गृह कार्य

खण्ड 'क'

1. अपठित गद्यपांश
अभ्यास 1 से 5 तक
2. विलोम शब्द 1 से 35 तक
3. पर्यायवाची शब्द 1 से 35 तक
4. अनेक शब्दों के लिए एक शब्द 1 से 35 तक
कॉपी में लिखकर याद करे।

खण्ड 'ख'

1. पाठ - 1 - वीणा - वादिनी बर दे !
2. पाठ - 2 - खुशी की तलाश
दोनों पाठों के प्रश्न उत्तर लिखकर याद
करें।
3. प्रतिदिन एक पेज कॉपी में सुलेख लिखें।

HISTORY HOLIDAY HOMEWORK 2024-25

STD VIII

- 1) Complete the Question Answers of the following chapters in your notebook.
 - i) History - The Harappan Civilisation
 - ii) Civics – Our Constitution

- 2) Learn thoroughly the following chapters taught in class.
 - i) History - The Harappan Civilisation
 - ii) Civics – Our Constitution

- 3) Write extra Questions Answers from following chapters in your notebook. (10 from each)
 - i) History - The Harappan Civilisation
 - ii) Civics – Our Constitution

HISTORY PROJECT

TOPIC - SOURCES OF HARAPPAN CIVILISATION

Instructions

- Students should only use the School Project copy.
- Students shall not use red or green pen for writing. Only black and blue pen can be used.
- Students may either paste black and white or coloured pictures. They may even draw sketches of characters' events. A brief description of the picture should be provided.
- The project should contain a minimum of 20 pages. The maximum page limit lies on the description of students.
- Students shall not decorate the project with any sticker or other ornaments.
- Students shall fill in the details - name, class, section, and roll number correctly

Holiday Homework Geography

STD 8

- Do exercise 1 to 16 given in Chapter Challenge from pg no. 113 to 120 of chapter - Location, Extent, Boundaries, Political and Physical Divisions of Asia.
Note: only questions answers to be done in Geography exercise book.
- Learn thoroughly chapter 2 - Population Dynamics and chapter 6 - Location, Extent, Boundaries, Political and Physical Divisions of Asia.

DON BOSCO ACADEMY, PATNA

SUMMER HOLIDAY HOMEWORK (2024-25)

STD - 8 (MATHEMATICS)

① Do the following questions :-

Exercise	Question Numbers
EX 1.1	5(i), (iv)
EX 1.3	3(i), (ii)
EX 1.4	11, 13
EX 1.5	2
EX 1.6	4, 6
EX 2.1	4(iii), (iv), 7(v), (vi)
EX 2.2	2(ii), (iii), (vi)
EX 2.3	2
EX 7.1	7, 10
EX 7.2	3, 9
EX 7.3	6, 7, 11, 13
EX 7.4	4, 8, 9, 12
EX 8.1	9, 10, 18, 22, 24
EX 11.2	4, 7, 10, 13
EX 11.3	3, 6
EX 11.4	3, 6, 8
EX 11.5	2

S. S. Madhukar
14/5/2024

(S. S. Madhukar)

Holiday homework 2024-25

Std:8 Physics

- 1) Prepare 10 multiple choice questions other than those given in the book from chapter -1,2 with four alternatives .
- 2) Define the following terms.
 - Melting
 - Freezing
 - Boiling
 - Evaporation
 - condensation
 - sublimation
 - deposition
 - adhesive force
 - cohesive force
 - physical quantity
 - density
 - up thrust
 - Plimsoll line.
- 3) Solve all the numericals of chapter 2.
- 4) Draw a flow chart to represent the change of state in a chart paper.