Holiday Home work

Std – 8 (2023- 24)

Mathematics

Q1. Write and learn the squares of 1 to 20

Q2. Write and learn the cube of 1 to 10

Q3. Do the following questions neatly

Chapter 1. -	Exercise 1 (A) -	Q 3 (ii) and (iv)
	Exercise 1 (B) -	Q1 (vi) , Q2 (iv) and (v), Q4, Q 9 (i) Q 10 (iii)
	Exercise 1 (c)	Q3 (iii) Q8 (ii)
	Exercise 1 (D)	Q 7 and Q .13
	Exercise 1 (E)	Q.6 and Q. 8..
Chapter 2.-	Exercise 2 (A)	Q.1 (iv) and (viii), Q.3
	Exercise 2 (B)	Q1 (v), (x) and (xv), Q6 (i) , Q10, Q13 (ii)
Chapter 7.	Exercise 7(A)	Q2 (ii) , Q5 (i) , Q11, Q14, Q19.
	Exercise 7(B)	Q5, Q7, Q9 and Q12
Chapter 9	Exercise 9(A)	Q4, Q6 (ii) , Q10, Q13
	Exercise 9 (B)	Q3, Q7 and Q10

Note: Use a separate copy of 60 – 80 pages for the above holiday work.

HOLIDAY HOMEWORK

ENGLISH

CLASS 8

2023-2024

1. Learn the list of Prepositions 1-100

2.Write an informal Letter to Your Friend Requesting Her to Spend Her Summer Holidays with You.

3. Your Uncle has presented a book to you on your birthday. It is related with the art of living. Pointing

out the usefulness of the book in life, write a letter in about 100 words thanking your uncle for sending

this valuable gift.

4. Read the Two DRAMA from Sixteen Tales from Shakespeare: -

•The Tempest

•The Merchant of Venice

5.Learn the question and answer of the lessons taught in PROSE and POETRY from English Ville.

6.Read the Newspaper daily and write only one news article under the given headings like National,

International, Sports, Business and express your views on it.

Geography Holiday Home Work for class 8

Assignment

1. Refer to the diagram of population pyramid given in page-21 and answer

the following questions. a) Does the pyramid resemble the pyramid of a developed country, a developing country or a less developed country?

b) Which age group has the largest number of people?

c) Are there more males or females in that age group?

d) Which age group has the least number of people?

e) Are there more males or females in that age group?

f) What is the approximate number of people aged 10 to 14 years?

g) What is the approximate number of people aged above 80 years? (You

will have to add the top four rows.)

2. Make a list of Asian wild animals which are threatened with extinction. Collect their pictures and paste (atleast five). Which of these animals is the

symbol of the world wide fund for nature?

3. Make a list of ten well known tourist attractions in Asia. Your list could

include historical monuments, geographical features, cities, etc. Collect

pictures from newspapers, etc., and paste (atleast 5)

Std:8 Physics

Holiday Homework. (2023-24)

1) Make flowchart showing the change of state on a chart paper.

2) Revise ch:1 for an MCQ test.

3) Complete all the works in your Physics copy and keep it ready for submission for correction

Holiday Home work

Class 8

History Civics (2023)

1)Prepare a project on the Harappan Civilization

2)Make 20 Multiple Choice Questions from the Harappan Civilization and Our Constitution. Write them in your fair notebook

3)Learn the Questions Answers of the chapters taught in the class

Computer summer Holiday Home work

1. Learn the definitions of :-

a) WORA

b) Source code

c) Object code

d) Byte code

e) JVM

f) JAVAC

2. Make a chart of data type used in Java.

3. Learn the memory size and ranges of different primitive data types.

4. Learn the differences between:-

a) Compiler and Interpreter

b) Ordinary Compiler and Java compiler.

HINDI HOLIDAY HOMEWORK

ग्रीष्मावकाश गृह कार्य 2023-24

कक्षा –8

हिंदी

खण्ड क

हिंदी व्याकरण

1-अपठित गद्यांश पृष्ठ संख्या -11,12 2एवं3

2-व्यावहारिक व्याकरण

क-विलोम शब्द पृष्ठ सं0-72

ख-पर्यायवाची शब्द पृष्ठ सं0-75

ग-भाववाचक संज्ञा पृष्ठ सं0-79

घ-ृविशेषण -पृष्ठ सं0-81

ङ:-अशुद्ध शब्दों को शुद्ध करो

पृष्ठ संख्या -82

नोट-सभी का 10-10 शब्द लिखें।

खण्ड ख

नवीन पल्लव भाग-8

1-वर दे वीणावादिनी

2-खुशी की तलाश

दोनों पाठों की पुनरावृत्ति

प्रतिदिन एक अलग कॉपी में सुलेख ।

CLASS 8

BIOLOGY HOLIDAY HOMEWORK

1. WRITE THE STRUCTURE , LOCATION AND FUNCTION OF THE CELL ORGANELLES AND INCLUSIONS

2. DRAW NEAT AND LABELLED DIAGRAMS OF THE FOLLOWING

i) ANIMAL CELL

ii) PLANT CELL

iii) NUCLEUS

Iv) MITOCHONDRIA

V) CHLOROPLAST

ALL THE WORK TO BE DONE IN THE BIOLOGY COPY

Don Bosco Academy, Patna (2023 -2024)

Class VIII - Language of Chemistry

Write the following in your notebook and learn

Monovalent Electropositive Radicals (Basic Radicals)

1	Ammonium	NH_4^+
2	Argentous (Silver I)	Ag^+
3	Cuprous (Copper I)	Cu^+
4	Hydrogen	H^+
5	Sodium	Na^+
6	Potassium	K^+

Monovalent Electronegative Radicals (acidic Radicals)

1	Bicarbonate or Hydrogen carbonate	HCO_3^-
2	Bisulphide or Hydrogen sulphide	HS^-
3	Bisulphate or Hydrogen Sulphate	HSO_4^-
4	Bisulphite or Hydrogen Sulphite	HSO_3^-
5	Bromide	Br^-
6	Chloride	Cl^-
7	Permanganate	MnO_4^-
8	Fluride	F^-
9	Hydride	H^-
10	Hydroxide	OH^-
11	Iodide	I^-
12	Nitrate	NO_3^-
13	Nitrite	NO_2^-
14	Meta aliminate	AlO_2^-

Divalent Electropositive Radicals (Basic Radicals)

1	Argentic (Silver II)	Ag^{2+}
2	Barium	Ba^{2+}
3	Calcium	Ca^{2+}
4	Cupric (Copper II)	Cu^{2+}
5	Ferrous (Iron II)	Fe^{2+}
6	Magnesium	Mg^{2+}
7	Plumbous (Lead II)	Pb^{2+}
8	Zinc	Zn^{2+}

Divalent Electronegative Radicals (Acidic Radicals)

1	Carbonate	CO_3^{2-}
2	Dichromate	$Cr_2O_7^{2-}$
3	Oxide	O^{2-}
4	Sulphate	SO_4^{2-}
5	Sulphite	SO_3^{2-}
6	Sulphide	S^{2-}
7	Zincate	ZnO_2^{2-}
8	Plumbite	PbO_2^{2-}

Trivalent Electropositive Radicals (Basic Radicals)

1	Aluminium	Al^{3+}
2	Chromium	Cr^{3+}
3	Ferric (Iron III)	Fe^{3+}

Trivalent Electronegative Radicals (Acidic Radicals)

1	Nitride	N^{3-}
2	Phosphate	PO_4^{3-}
3	Aluminate	AlO_3^{3-}

Tetravalent Electropositive Radical (Basic Radical)

1	Plumbic (Lead IV)	Pb^{4+}

Tetravalent Electronegative Radical (Acidic Radical)

1	Carbide	C^{4-}

Vacation Homework in Chemistry
For Class VIII (2023 - 2024)

1. Give the names of the following compounds.

(*i*) NH_4Cl (*ii*) Na_2O_2

(*iii*) $Zn(OH)_2$ (*iv*) $KHCO_3$

(*v*) $K_4[Fe(CN)_6]$ (*vi*) $NaClO$

(*vii*) $CaSO_4$ (*viii*) $Na[Ag(CN)_2]$

(*ix*) $AgNO_3$ (*x*) HNO_2.

2. Balance the following chemical equations.

(*i*) $N_2 + O_2 \longrightarrow NO$

(*ii*) $NO + O_2 \longrightarrow NO_2$

(*iii*) $NO_2 + H_2O + O_2 \longrightarrow HNO_3$

(*iv*) $Pb(NO_3)_2 \xrightarrow{\Delta} PbO + NO_2 + O_2$

(*v*) $AgNO_3 \xrightarrow{\Delta} Ag + NO_2 + O_2$

(*vi*) $Ag_2CO_3 \xrightarrow{\Delta} Ag + CO_2 + O_2$

(*vii*) $C_{22}H_{46} + Cl_2 \longrightarrow C + HCl$

(*viii*) $CuSO_4 + NaOH \longrightarrow Na_2SO_4 + Cu(OH)_2$

(*ix*) $NaNO_3 \xrightarrow{\Delta} NaNO_2 + O_2$

(*x*) $KNO_3 \xrightarrow{\Delta} KNO_2 + O_2$

(*xi*) $NH_3 + Cl_2 \longrightarrow NCl_3 + HCl$

(*xii*) $NH_3 + Cl_2 \longrightarrow NH_4Cl + N_2$

(*xiii*) $PbO + HNO_3 \longrightarrow Pb(NO_3)_2 + H_2O$

(*xiv*) $NaOH + Cl_2 \longrightarrow NaCl + NaClO + H_2O$

(*xv*) $NaOH + Cl_2 \longrightarrow NaCl + NaClO_3 + H_2O$

(*xvi*) $CH_4 + O_2 \longrightarrow CO_2 + H_2O$

(*xvii*) $C_2H_6 + O_2 \longrightarrow CO_2 + H_2O$

(*xviii*) $C_2H_4 + O_2 \longrightarrow CO_2 + H_2O$

(*xix*) $C_2H_2 + O_2 \longrightarrow CO_2 + H_2O$

(*xx*) $Na + H_2O \longrightarrow NaOH + H_2$

(*xxi*) $Pb_3O_4 \xrightarrow{\Delta} PbO + O_2$

(*xxii*) $PbO_2 \xrightarrow{\Delta} PbO + O_2$

(*xxiii*) $Mg + HNO_3 \longrightarrow Mg(NO_3)_2 + H_2$

(*xxiv*) $NH_3 + CuO \longrightarrow N_2 + H_2O + Cu$

(*xxv*) $NH_3 + O_2 \longrightarrow N_2 + H_2O$

(*xxvi*) $H_2S + Cl_2 \longrightarrow HCl + S$

(*xxvii*) $H_2S + SO_2 \longrightarrow H_2O + S$

(*xxviii*) $H_2S + H_2SO_4 \longrightarrow H_2O + SO_2 + S$

(*xxix*) $S + HNO_3 \longrightarrow H_2SO_4 + NO_2 + H_2O$

(*xxx*) $C + HNO_3 \longrightarrow CO_2 + NO_2 + H_2O$

(*xxxi*) $P + HNO_3 \longrightarrow H_3PO_4 + NO_2 + H_2O$

(*xxxii*) $NaCl + H_2SO_4 \longrightarrow Na_2SO_4 + HCl$

3 Write the formulae and balance the following chemical equations.

(*i*) Zinc + dilute Sulphuric acid ⟶ Zinc sulphate + Hydrogen

(*ii*) Copper + conc. Nitric acid ⟶ Copper nitrate + Nitrogen dioxide + Water

(*iii*) Copper + dil. Nitric acid ⟶ Copper nitrate + Nitric oxide + Water

(*iv*) Ammonium chloride + Calcium hydroxide ⟶ Calcium chloride + Water + Ammonia

(*v*) Ammonia + Oxygen ⟶ Nitric oxide + Water

(*vi*) Manganese (IV) oxide + conc. Hydrochloric acid ⟶ Manganese (II) chloride + Water + Chlorine

(*vii*) Potassium dichromate + conc. Hydrochloric acid ⟶ Potassium chloride + Chromium chloride + Water + Chlorine

(*viii*) Sulphur dioxide + Oxygen ⟶ Sulphur trioxide

(*ix*) Zinc + Water ⟶ Zinc oxide + Hydrogen

(*x*) Aluminium + dil. Hydrochloric acid ⟶ Aluminium chloride + Hydrogen

(*xi*) Magnesium + Nitrogen ⟶ Magnesium nitride

(*xii*) Magnesium nitride + Water ⟶ Magnesium hydroxide + Ammonia

(*xiii*) Copper hydroxide $\xrightarrow{\Delta}$ Copper oxide + Water

(*xiv*) Potassium chlorate $\xrightarrow{\Delta}$ Potassium chloride + Oxygen

(*xv*) Zinc sulphide + Oxygen ⟶ Zinc oxide + Sulphur dioxide

Common Name Chemical Name & Formula (Write & learn)

Sl. No	Common Name	Chemical Name	Formula
1	Common salt/ Table salt/ rock salt	Sodium chloride	$NaCl$
2	Baking Soda	Sodium hydrogen carbonate or sodium bicarbonate	$NaHCO_3$
3	Washing Soda	Sodium Carbonate deca hydrate or Hydrated Sodium carbonate	$Na_2CO_3.10H_2O$
4	Marble or Lime stone or chalk	Calcium Carbonate	$CaCO_3$
5	Sand	Silica	SiO_2
6	Quick Lime	Calcium oxide	CaO
7	Slaked lime	Calcium hydroxide	$Ca(OH)_2$
8	Blue Vitriol	Copper Sulphate pentahydrate or hydrated Copper sulphate	$CuSO_4.5H_2O$
9	Caustic Soda	Sodium hydroxide	$NaOH$
10	Caustic Potash	Potassium hydroxide	KOH
11	Vinegar	Acetic Acid	CH_3COOH
12	Dry Ice	Solid Carbon dioxide	CO_2
13	Laughing Gas	Nitrous Oxide	N_2O
14	Nitre	Potassium nitrate	KNO_3
15	Gypsum	Calcium Sulphate dihydrate orHydrated Calcium Slphate	$CaSO_4.2H_2O$
16	Plaster of Paris	Calcium sulphate hemihydrate or Hydrated Calcium Sulphate	$CaSO_4.\ ½\ H_2O$
17	Alumina	Aluminium Oxide	Al_2O_3
18	Rust	Hydrated Iron(III) oxide or Hydrated Ferric Oxide	$Fe_2O_3.\ x\ H_2O$
19	Bleaching Powder	Calcium oxychloride	$CaOCl_2$
20	Green Vitriol	Ferrous sulphate heptahydrate or Hydrated ferrous slphate	$FeSO_4.7H_2O$
21	Muriatic Acid	Hydrochloric Acid	HCl
22	Aqua fortis	Concentrated Nitric Acid	HNO_3
23	Brim Stone	Sulphur	S
24	Zinc blende	Zinc Sulphide	ZnS
25	Marsh Gas	Methane	CH_4
26	Ammonia water	Ammonium hydroxide	NH_4OH

27	Azote gas	Nitrogen	N_2
28	Bauxite	Dihydrate Aluminium oxide	$Al_2O_3.2H_2O$
29	Benzol	Benzene	C_6H_6
30	Calamine	Zinc carbonate	$ZnCO_3$
31	Cane sugar	Sucrose	$C_{12}H_{22}O_{11}$
32	Cinnabar	Mercury (II) sulphide	HgS
33	Cuprite or ruby copper	Cuprous oxide	Cu_2O
34	Cryolite	Sodium aluminium hexafluride	Na_3AlF_6
35	Dead burnt gypsum	Anhydrous calcium sulphate	$CaSO_4$
36	Epsom salt	Hepta hydrate of Magnesium sulphate	$MgSO_4.7H_2O$
37	Fluorspar	Calcium fluoride	CaF_2
38	Galena	Lead sulphide	PbS
39	Glauber's salt	Hydrated sodium sulphate	$Na_2SO_4.\ 10\ H_2O$
40	Iron pyrite (Fools gold)	Iron disulphide	FeS_2
41	Lime water or milk of lime	Calcium hydroxide	$Ca(OH)_2$

		solution	
42	Lunar caustic	Silver nitrate	$AgNO_3$
43	Magnesia	Magnesium Oxide	MgO
44	Magnetite	Ferrosoferric Oxide	Fe_3O_4
45	Milk of Magnesia	Magnesium hydroxide	$Mg(OH)_2$
46	Oil of Vitriol or King of chemicals	Concentrated Sulphuric acid	H_2SO_4
47	Oleum	Pyrosulphuric acid	$H_2S_2O_7$
48	Quick silver	Mercury	Hg
49	Saltpetre	Potassium nitrate	KNO_3
50	chile saltpetre	Sodium nitrate	$NaNO_3$