1. Why are budding, fragmentation and regeneration all considered as asexual types of reproduction? With neat diagrams explain the process of regeneration in *Planaria.*

2. Write two points of difference between asexual and sexual types of reproduction. Describe why variations are observed in the offspring formed by sexual reproduction.

3. Distinguish between pollination and fertilisation. Mention the site and product of fertilisation in a flower.Draw a neat, labelled diagram of a pistil showing pollen tube growth and its entry into the ovule.

4. Distinguish between a gamete and zygote. Explain their roles in sexual reproduction.

5. Draw the diagram of a flower and label the four whorls. Write the names of gamete producing organs in the flower.

KENDRIYA VIDYALAYA RRL JORHAT
AUTUMN BREAK HOME WORK 2022-23
CLASS-X   SUBJECT- CHEMISTRY

1. Why does a turmeric stain on white shirt is turned to red when it is washed with soap?

2. A small amount of hydrochloric acid is always produced in the stomach. Is it useful or harmful for us? If excess of acid is produced in the stomach, what should we do?

3. Look at the given reaction.

   Hydrochloric acid + Sodium hydroxide (base) → Sodium chloride (salt) + Water
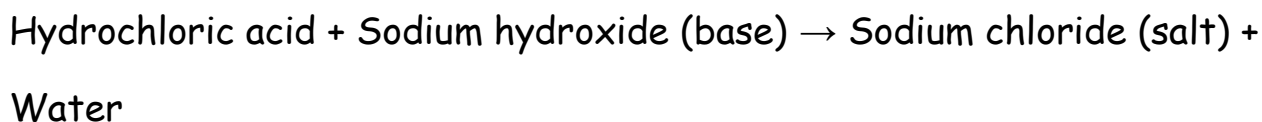
   Sodium chloride formed in this reaction remains in solution form. Can we get solid sodium chloride from this solution? Suggest a method (if any).

4. Give reasons for the following

    i) Zinc oxide is considered an amphoteric oxide.

    ii) Non-metals in general do not displace hydrogen from dilute acids.

    iii) Metals conduct electricity.

5. By what processes do you concentrate the following ores:

    i) PbS(galena)

    ii) Fe2O3(haematite)

    iii) Al2O3.2H2O (bauxite).

KENDRIYA VIDYALAYA RRL JORHAT
AUTUMN BREAK HOME WORK 2022-23
CLASS-X   SUBJECT- PHYSICS

1. A current of 10 A flows through a conductor for two minutes.
   (i) Calculate the amount of charge passed through any area of cross section of the conductor.
   (ii) If the charge of an electron is 1.6×10^{-19} C, then calculate the total number of electrons flowing.

2. Draw the symbols of commonly used components in electric circuit diagrams for
   (i) An electric cell
   (ii) Open plug key
   (iii) Wires crossing without connection
   (iv) Variable resistor
   (v) Battery
   (vi) Electric bulb
   (vii) Resistance

3. State Ohms law. Draw a labelled circuit diagram to verify this law in the laboratory. If you draw a graph between the potential difference and current flowing through a metallic conductor, what kind of curve will you get? Explain how would you use this graph to determine the resistance of the conductor.

4. A copper wire has diameter 0.5 mm and resistivity 1.6 × 10-8 Ω m. Calculate the length of this wire to make it resistance 100 Ω. How much does the resistance change if the diameter is doubled without changing its length?

A wire has a resistance of 16 Ω. It is melted and drawn into a wire of half its original length. Calculate the resistance of the new wire. What is the percentage change in its resistance.

KENDRIYA VIDYALAYA RRL JORHAT
AUTUMN BREAK HOME WORK 2022-23
CLASS-X   SUBJECT- ENGLISH

1. You are Prabhu Kumar / Parvati of 17E, Ravidas Road,Kochi. Write a letter to the editor of a local Newspaper about the nuisance caused by loudspeakers in the city during exam days drawing attention of the authorities concerned to the problem.

2. The following table shows details about the different internet activities for six categories of people according to different age groups. Study the table and write an analytical paragraph based upon it in about 100- 120 words.

Internet Activities by Age Group

Activity%	Teens	20s	30s	40s	50s	60s	70+
Get News	76	73	76	75	71	74	70
Online games	81	54	37	29	25	25	32
Downloads	52	46	27	15	13	8	6
Product research	0	79	80	83	79	74	70
Buying a product	43	68	69	68	67	65	41
Searching for people	5	31	23	23	24	29	27

** Read all the new chapters (First Flight & Footprints without Feet) from your prescribed textbooks (First Flight & Footprints without Feet) from as per modified syllabus.

KENDRIYA VIDYALAYA RRL JORHAT

AUTUMN BREAK HOME WORK 2022-23

CLASS-X   SUBJECT- SANSKRIT

1. धातुरूपाणि लिखत्

   गम् लोट् लकार्

   लिख् लोट् लकार

2. का नाम प्रत्यय: ? कति भेद :? लिखत्

3. का नाम समास: ? कति भेद: ? लिखत्

4. "विद्या" विषयका: पञ्च श्लोकानि लिखत्

KENDRIYA VIDYALAYA RRL JORHAT

AUTUMN BREAK HOME WORK 2022-23

CLASS-X   SUBJECT- HINDI

प्रश्न-1   बच्चे की मुसकान और बड़े व्यक्ति की मुसकान में क्या अंतर है

प्रश्न-2   अपने माँ और पिता से पूछकर अपने बचपन की पांच विशेषताएं लिखिए

प्रश्न-3   निराला जी ने अपनी कविता का शीर्षक उत्साह क्यों रखा ।

प्रश्न-4   फागुन में ऐसा क्या होता है जो बाकी ऋतुवों से भिन्न होता है

प्रश्न-5   भगत की पुत्रबधू उन्हें अकेले क्यों नहीं छोड़ना चाहती है

KENDRIYA VIDYALAYA RRL JORHAT

AUTUMN BREAK HOME WORK 2022-23

CLASS-X   SUBJECT- MATHS

1.Solve the PT-2 Question Paper in your maths notebook.

2. Practice CBSE sample papers.

1. Explain the following...

(i) khilafat movement

(ii) Non-cooperation movement

(iii) civil disobedience movement

(iv) sense of collective belongingness

2. Describe the main features of Poona pact.

3. Describe the process of German unification.

4. Describe the process of Italy unification.

5. Describe the importance of judicious use of resources.

6. Describe any three step taken by the government towards decentralisation in the year 1992.

7. Describe the different ways through which women face discrimination and oppression in India.

8. Explain any three reasons for the primary sector to be the largest employer in India.

9. "The decline share of agriculture in the Gross Domestic Product(GDP) is a matter of serious concern in India". Support the statement with any five reasons.