English

1. India is determined to educate all its children, especially girls. It has made a constitutional provision for providing free and compulsory education to all children between 6 and 14 years of age. Why is the education of a girl child so important? How can a woman contribute in the development of a nation?
Prepare a project on **"Education of a girl child"**

2. One day you dreamt that you became invisible. Write a short story in 150-200 words based on your dream taking help from the clues given below.
Shopping without using any money- watch movies-travel the whole world without ticket-visit famous places-meet famous people-disclose the planning and secrets of terrorists to police-help them to nab the most dreaded terrorist of the world-rewarded a cash price.

3. Today your school organized a workshop on 'Self-Awareness' for the students of class X. Share your experience about the workshop in the form of a diary entry in about 100 words. You are Abhimanyu/Anna.

4. Self reading of the story A Letter to God and note down the vocabulary where necessary. (First Flight)

5. Self reading of the story A Triumph of Surgery and underline the vocabulary where necessary. (Footprints without Feet)

Civics

1. Write about the Ethnic composition of Sri Lanka and what is the main reason of civil war in Sri Lanka?

2. Why power sharing is desirable? How the Belgian Government Share the power between different Ethnic groups?

3. Explain the different form of power Sharing.

4. Write a note on Khaleel's dilemma.

5. On the outline of world locate the following.
   a) Belgium   b) Sri Lanka

Economics

1. Why do you think average income is an important criterion for development? Explain.

2. Human development Index is main criterion for development of any country. How?

3. Write about objectives of economic development of India.

4. Explain how public sector contributes to the Economic development of a nation.

5. What are main objectives of UNDP & Vishwa Bank for development?

History

1. Read Ch-1 (The Rise of Nationalism in Europe) carefully.

2. Write about Napoleonic code/ civil code of 1804.

3. Write about unification of Italy and Germany.

4. Write a short note on:-
   a) The Greek war of independence.   b) Frankfurt Parliament.

5. Mark the following country on the political map of the world.

a) Japan (b) Germany   (c) Italy   (d) U.S.A.   (e) India (f) China (g)France (h) Greece
(i) Russia (j) Britain

Geography

1. Read Resources and Development (ch-1) carefully.
2. Classify the different types of resources.
3. Write about the different types of soil which is found in India.
4. Write a short note on Rio de Janeiro Earth summit, 1992.
5. Show major type of soil in India on the physical map of India.

Chemistry

A. Balance the chemical equation.

1) $CH_4+Cl_2 \rightarrow CCl_4 + HCl$
2) $Fe_2O_3+ Al \rightarrow Fe+Al_2O_3$
3) $Fe+H_2O \rightarrow Fe_3O_4+H_2$
4) $NaOH+ H_2SO_4 \rightarrow Na_2SO_4+H_2O$
5) $KClO_3 \rightarrow Kcl+ O_2$
6) $C+SO_2 \rightarrow CS_2+CO$
7) $Xe+ F_2 \rightarrow XeF_6$

8) $Ag+H_2S \rightarrow Ag_2S+H_2$
9) $KOH+ Co_2 \rightarrow K_2Co_3+H_2O$
10) $Na+Cl_2 \rightarrow NaCl$
11) $SiO_2+C \rightarrow Sic+Co$
12) $Fecl_3+ NaOH \rightarrow Fe(OH)_3+Nacl$
13) $Al+ H_2So_4 \rightarrow Al_2 (So_4)_3+H_2$
14) $NH_3+CuO \rightarrow Cu+N_2+H_2O$

B. Define the following with two examples each.

1) Single displacement rec[n]
3) Decomposition rec[n]
5) Redox rec[n]
7) Reduction rec[n]

2) Double displacement rec[n]
4) Double Decomposition rec[n]
6) Oxidation rec[n]

Mathematics

1. Show the following numbers are irrational.
   a) $\sqrt{3}$ b) $\sqrt{2} + \sqrt{3}$ C) $5+2\sqrt{2}$
2. Define Euclid's division lemma.
3. Fine the HCF of 360 and 945 by using Euclid's division lemma.
4. Show that one and only one out of n, n+2, and n+4 is divisible by 3.
5. Show that n^2-1 is always divisible by 8, where n is any positive odd integer.
6. Show that n^3-n is divisible by 6, where n is any positive integer.
7. Show that $\sqrt{2}$ always lies between $\frac{a+2b}{a+b}$ and $\frac{a}{b}$ where a and b are any positive integers.
8. Show that one out of $\frac{a+b}{2}$ and $\frac{a-b}{2}$ is even and other one is odd, if a and b are any two positive odd integers.
9. Fine the number of factors of 960.
10. Find the sum of all factors of 960.
    Assignment
11. a) Pythagoras   b) Euclid   c) Ramanujan (with photo)
    Project
    a) Proof of Pythagoras theorem.
    b) To find HCF by using Euclid's division lemma.
       (One chart paper)

2

Biology

1. Draw a diagram depicting Human Alimentary canal and label on it: Gall bladder, Liver and Pancreas on Chart paper..
2. Write a short note on all the topics of life processes.
3. Suppose you are a doctor and you have to do surgery of heart and kidney. Show with diagram the morphological and anatomical representation of these organs.
4. Corona virus attacks the respiratory system of human being. Depict the structure diagrammatically. Explain the functions of each and every part of the respiratory system.
5. Differentiate between Autotrophic and heterotrophic nutrition.
6. Photosynthesis is a life supporting process home a note on this topic explaining. Why.
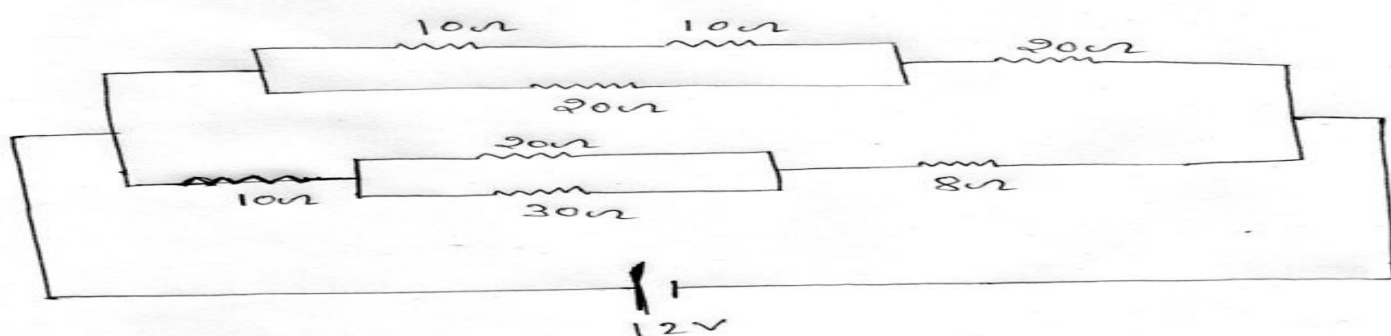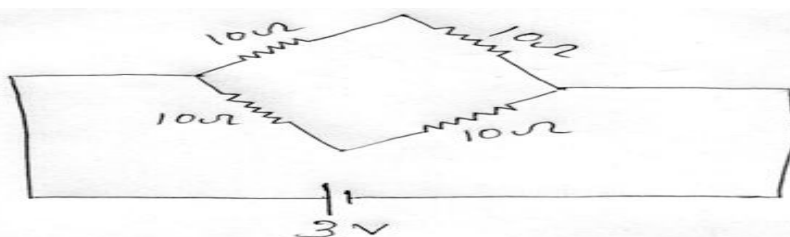7. Can you explain the terms?

1) Metabolism	2) Nutrition	3) Autotrophic Nutrition
4) Photosynthesis	5) Photolysis	6) Photo Phosphorylation
7) Compensation point	8) Heterotrophic nutrition.	9) Digestion
10) Lysozyme	11) Peristalsis	12) Emulsification
13) Succus Entericus	14)Phagocytosis	15) Respiration
15) Breathing	16) Aerobic respiration	17)Glycolysis
18)Kreb's cycle	19)Transportation	20) Circulatory system
21) Haemolysis	22) Serum	23)Diapedesis
24) Pulse	25) Translocation	26) Transpiration
27) Ascent of sap	28) Excretion	29) Nephric filtrate
30) Ultrafilteration	31) Glomerulus	32) Bowman's capsule
33) Osmoregulation		

8. In human digestion starts in mouth. Which component of food breaks down in mouth? What is the reason behind it.
9. Energy and food material are also required by plants. Form where do plants fulfill these requirements
   In the croton leaf, which leaf of the leaf contains starch, green or yellow? Give the reason for your answer.
10. a) What presents the entry of food into trachea while swallowing.
    c) Why rate of breathing is faster in aquatic animals as compared to terrestrial animals.
11. Do the fresh water animal reabsorb water through their excretory system like marine animal? Justify your answer.
12. How are the alveoli designed to maximize the exchange of gases?

13. What constitutes one heart beat? Is the pulse rate same as heart beat rate.
14. What is the need of four chambered heart in mammals while fishes have only two chambered heart?
15. The inner lining of the small intestine contains numerous villi. Are villi helpful in food absorption? Give the reason behind your answer.

Physics

1. What is slope in graph, what is its representation and formula?
2. How acceleration can be found with the help of velocity time graph?
3. What is scalar & vector quantity gives some example.
4. Draw a table for sinØ ,CosØ, tenØ, when Ø is 0^0, 30^0, 45^0, 90^0
5. Define ----- a) Mass   b)Charge
6. What are the methods of charging explain?
7. What is charge conservation.
8. What are the Various properties of change?
9. What is Electric current? What is the function of cell in the electric Circuit?
10. Drawn a table consisting components and their symbols used in electrical circuits?
11. Drawn circuit diagram having cell, Restores, Switch, Voltmeter, and Ammeter?
12. What is OHM's Law and drawn in (V-A) graph.
13. What is potential and potential difference.
14. Define resistance and Resistivity?
    One what factors resistance depends in a conductor?
15. Why is the series arrangement not used for domestic circuits?
16. A battery of 9V is connected in series with resistors of 0.2 Ω, 0.3 Ω, 0.4 Ω, 0.5 Ω, and 12 Ω, respectively. How much current would flow though the 12 Ω resistor.
17. Find the equivalent resistance in the circuit?

18. What is joules' law of heating? How that is generated in the circuit?
19. Electrons are consumed in an electric circuit is this statement true or false explain?
20. Define electric power. How it is related with potential, current, resistance?
21. An electric bulb is connected to a 220 volt supply. The current is 0.5 Amp. What is the power of the bulb?
22. An electric refrigerator rated as 400w, operates 8 house per day. What is the cost of energy to operate it for 30 days at Rs 3 per KWh?
23. What is KWh? Is it the unit of power or Energy?

Sanskrit   Assignment for Class- X

1. व्यंजन संधि किसे कहते है? इनके भेदों का सोदाहरण परिभाषा संस्कृत में लिखें।
2. 'बालदिवस–समारोहः' इति विषयम् अधिकृत्य मञ्जूषापदसाहाय्येन पञ्च संस्कृतवाक्यानि लिखत–

<div align="center">मञ्जूषा</div>

विद्यालये, अध्यापकाः, छात्राः, गतवर्षे, उत्साहेन मान्यते,पुरस्कारम्, प्रथमम्,भाषणप्रतियोगिता, स्वागतम्

3. 'बालश्रमः बालकेषु अत्याचारः, इति विषयम् अधिकृतेन संस्कूतेन पञ्च वाक्यानि लिखत। सहायतार्थ मञ्जूषा अपि दत्ता–

<div align="center">मञ्जूषा</div>

जलपानगृहेषु, भोजनालयेषु, उद्योगेषु, बालकाः, अल्पवेतनम् अभावः, शिक्षातः वञ्चिताः, सूचीकार्यम्, क्रीडनात्, बाल्यसुखात् वञ्चिताः, विविधाः अत्याचाराः, जनाः, ग्रामेभ्यः आनयन्ति, क्रीणित्वा अपि

4. अधोलिखितवाक्यानां संस्कृतभाषायाम् अनुवादं कृत्वा लिखत–
    1. गंगा भारत की जीवनदायिनी नदी है।
    2. व्यवहार कुशलता सफलता देती है।
    3. मता का स्पर्श बच्चे के लिए वरदान होता है।
    4. चश्मा व्यक्ति को देखने में सहायता करता है।

Hindi

1.संज्ञा, सर्वनाम, विशेषण और क्रिया की परिभाषा लिखकर उसके भेदों को सोदाहरण स्पष्ट करें।

2. कारक एवं उसके परसर्ग (चिह्न) को लिखें।

3. बाल मजदूरी 'एवं ' प्रदूषण की समस्या ' पर निबंध लिखें ?

4. दो–दो औपचारिक और अनौपचारिक पत्र लिखें ? (अपने विवेकानुसार कहीं भी)

5.अपनी पाठ्य पुस्तक के सभी पाठ के नाम एवं उसके रचनाकार के नाम लिखें ?

سوال 1- یونٹ اوّل میں چار اسبق داخل ہیں۔

سبق کے عنوانات اور مصنف کے نام تحریر کریں۔

سوال نمبر 2- اسمٰعیل میر ٹھی، کنھیالال کپور، نظیر اکبر آبادی اور منشی پریم چند کی سوانخ حیات مختصر انداز سے تحریر کریں۔

سوال نمبر 3- سبق نمبر4 کے معنی سے عملی کام تک کے سوال وجواب مکمل کرکے تحریر کریں۔

سوال نمبر 4- علامات وقف Punctuation کے مطابق سکتہ ammoC

فجائیہ noitamalcxE fo etoN اور سوالیہ Note of Interrogation

کے کیا علامات ہیں مثال کے ساتھ جواب تحریر کریں۔

سوال نمبر 5- اسم معرفہ یا خاص اور اسم نکرہ عام کی تعریف مثال کے ساتھ تحریر کریں۔