

DELHI PUBLIC SCHOOL, DAULATPUR
CLASS –X
SUMMER HOLIDAYS HOMEWORK- 2021-22

ENGLISH WORKSHEET-1

Choose the correct option-

Q1. I _____ working all afternoon and have just finished the assignment.

- A have been
- B had been
- C shall be
- D am

Q2. Rohan _____ the movie before he read the review.

- A watches
- B have watched
- C had watched
- D was watching

Q3. He _____ in the States but he still does not have a command over the English language.

- A have been living
- B has been living
- C have lived
- D living

Q4. By the next month, we shall _____ the project.

- A has completed
- B completing
- C completed
- D have completed

Q5. Every boy and girl _____ in the class today.

- A are present
- B is present
- C have present
- D had present

Q6. He _____ daily for a year now.

- A exercises
- B was exercising
- C has been exercising
- D have been exercising

Q7. I _____ this book since morning.

- A had been reading
- B has been reading
- C have had read

D shall be reading

Q8. Which tense is used to express general truths and facts?

- A Present continuous tense
- B Present perfect tense
- C Past perfect tense
- D Present indefinite tense

Q9. According to the prevailing rate, two dozen _____ rupees one hundred.

- A costs
- B cost
- C costing
- D costed

Q10. Back in my native place, I _____ a smartphone.

- A did not have
- B do not have
- C did not had
- D do not had

Q11. Choose the correct sentence.

- A When I woke up, he has already eaten breakfast.
- B When I woke up, he had already eaten breakfast.
- C When I had woken up, he had already ate breakfast.
- D When I had woken up, he has already ate breakfast.

Q12. I _____ the medicine as prescribed by the doctor for a week now.

- A takes
- B have been taking
- C would have taken
- D have had been taking

Q13. You and I _____ the obligations.

- A am fulfilled
- B has been fulfilling
- C have fulfilled
- D has fulfilled

Q14. Identify the tense used in the sentence. "Her brother will walk her down the aisle."

- A Future indefinite tense
- B Future perfect tense
- C Present indefinite tense
- D Present perfect tense

Q15. Choose the past perfect continuous tense form of the sentence. "The children played in the park throughout the evening."

- A The children played in the park throughout the evening.
- B The children have been playing in the park throughout the evening.
- C The children had played in the park throughout the evening.

D The children had been playing in the park throughout the evening.

Q16. Identify the tense used in the sentence. "Here comes the soon-to-be bride!"

- A Present continuous tense
- B Present indefinite tense
- C Future indefinite tense
- D Present perfect tense

Q17. Identify the tense used in the underlined phrase. "The weatherman forecasted that it's going to rain."

- A Present indefinite tense
- B Future indefinite tense
- C Future perfect continuous tense
- D Future continuous tense

Q18. Two-thirds of the food supply _____ for the month.

- A has been used
- B were used
- C have been using
- D has been using

Q19. Meera _____ for the charitable cause.

- A came to contribute
- B come to contributed
- C came to contributed
- D comes to contributed

Q20. Fill in the blank with the past continuous tense form of the verb given in the bracket. "Monica _____ since last week." (plan)

- A did plan
- B has been planning
- C had been planning
- D was planning

Q21. The crowd that _____ due to the quarrel has dispersed now.

- A have gathered
- B has been gathered
- C had gathered
- D has been gathering

Q22. Identify the tense used in the sentence. "Nick has purchased a new laptop."

- A Present perfect tense
- B Past indefinite tense
- C Past perfect tense
- D Present indefinite tense

Q23. The stars _____ bright at night.

- A shines
- B shine
- C has shine
- D shining

Q24. Identify the tense used in the sentence. “When shall our application be approved?”

- A Future perfect tense
- B Present indefinite tense
- C Past perfect tense
- D Future indefinite tense

Q25. Which tense is used to express an action completed in the immediate past?

- A Past indefinite tense
- B Present indefinite tense
- C Present perfect tense
- D Past perfect tense

Fill in the blanks with suitable determiners:

- 1) _____ house is not mine.
- 2) I have _____ more files to complete.
- 3) She doesn't like him _____.
- 4) Nidhi answered _____ the questions wrong.
- 5) _____ the girls had to carry their own luggage.
- 6) I shall not buy _____ oranges. These are rotten.
- 7) I have bought _____ cycle.
- 8) I drive 10 Kms _____ day to reach my school.
- 9) We are expecting _____ guests tonight.
- 10) _____ of my answers were correct. So I passed.
- 11) Hello! _____ is Nipun. Can I speak to Aman?
- 12) He spends _____ time on video games.
- 13) What is your sister doing _____ days?

- 14) I can speak _____ Hindi.
- 15) He had built _____ unique house.

Answer Key – MCQ's

Q. No.	Answer	Q. No.	Answer	Q. No.	Answer
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1	B	10	A	19	A
2	C	11	B	20	D
3	B	12	B	21	C
4	D	13	C	22	A
5	B	14	A	23	B
6	C	15	D	24	D
7	A	16	B	25	D
8	D	17	D		
9	B	18	A		

Answers - Determiners

- 1) *That*
- 2) *Some*
- 3) *Much*
- 4) *All*
- 5) *All*
- 6) *These*
- 7) *A*
- 8) *Every*
- 9) *Several*
- 10) *Most*
- 11) *This*
- 12) *More*
- 13) *These*
- 14) *Little*
- 15) *A*

ENGLISH WORKSHEET-2

Question 1: Write a letter to your cable operator complaining about the unavailability of many channels though you have been charged for them.

- Mention the plan that you are using.
- Which channels were promised to you in the plan.
- The times you have registered your complaints.

Question 2: Write a letter of complaint to the Company from which you bought a fridge two months back and it is not cooling well. Complaints to the local service agent have not been attended yet.

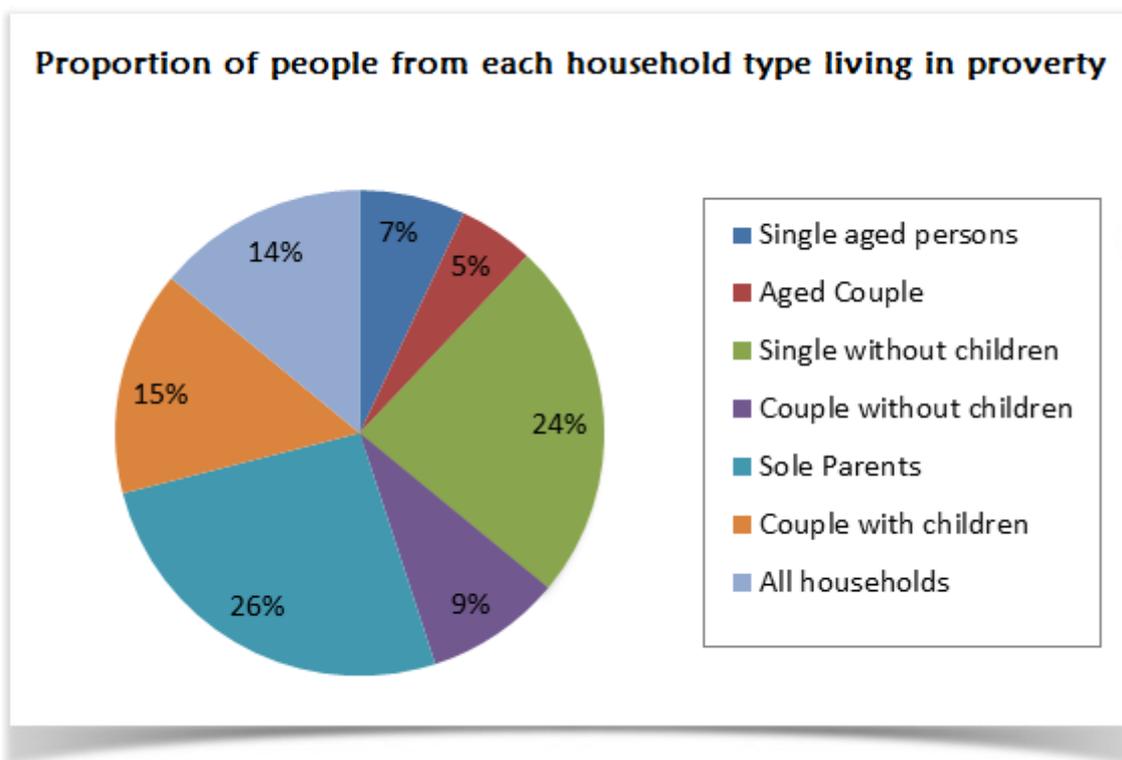
- Give the model and size of the fridge purchased.
- Give the date of purchase and name of dealer.
- Number of complaints made to service dealer.
- Urgency in view of the hot summer months.

Question 3: Your grandfather is very upset about the rising prices and keeps thinking of his olden times when things were very cheap. You are convinced that inflation has made life difficult for common man. Write a letter in 100-120 words to the editor of a national daily describing the difficulties faced by poor families.

Question 4: You are Neha Singh, computer incharge of DIPS. Your school wishes to buy 20 computers and computer accessories from Apple Inc., Nehru Place, New Delhi, Draft a letter placing order giving all the specifications of the product and its quality.

Question 5: You are Rama/Ramesh of D-105, Lajpat Nagar, New Delhi. You want information about German Language Courses at German Embassy, Chankya Puri, New Delhi. Write a letter to the Director inquiring about the same.

Question 6: The pie chart shows the proportion of people from different households living in poverty in the UK in 2002. Write an analytical paragraph to describe the information in 100-120 words.



ग्रीष्मावकाश गृहकार्य (2021-22)

1. 'कोरोना महामारी' के सकारात्मक तथा नकारात्मक दोनों पक्षों को ध्यान में रखते हुए लगभग 250 शब्दों में एक निबंध लिखिए।
2. सरल, संयुक्त तथा मिश्र वाक्यों के पाँच-पाँच उदाहरण अपनी पुस्तिका में लिखिए।

MATHS WORKSHEET

Choose the correct answer from the given four options in question 1 to question 10:

- Q1. For some integer m , every even integer is of the form
(A) m (B) $m + 1$ (C) $2m$ (D) $2m + 1$
- Q2. $n^2 - 1$ is divisible by 8, if n is
(A) an integer (B) a natural number (C) an odd integer (D) an even integer
- Q3. The largest number which divides 70 and 125, leaving remainders 5 and 8, respectively, is
(A) 13 (B) 65 (C) 875 (D) 1750
- Q4. If two positive integers a and b are written as $a = x^3y^2$ and $b = xy^3$; x, y are prime numbers, then HCF (a, b) is
(A) xy (B) xy^2 (C) x^3y^3 (D) x^2y^2
- Q5. If the zeroes of the quadratic polynomial $x^2 + (a + 1)x + b$ are 2 and -3 , then
(A) $a = -7, b = -1$ (B) $a = 5, b = -1$ (C) $a = 2, b = -6$ (D) $a = 0, b = -6$
- Q6. If one of the zeroes of the cubic polynomial $x^3 + ax^2 + bx + c$ is -1 , then the product of the other two zeroes is
(A) $b - a + 1$ (B) $b - a - 1$ (C) $a - b + 1$ (D) $a - b - 1$
- Q7. The pair of equations $x + 2y + 5 = 0$ and $-3x - 6y + 1 = 0$ have
(A) a unique solution (B) exactly two solutions
(C) infinitely many solutions (D) no solution
- Q8. The pair of equations $y = 0$ and $y = -7$ has
(A) one solution (B) two solutions
(C) infinitely many solutions (D) no solution
- Q9. The value of c for which the pair of equations $cx - y = 2$ and $6x - 2y = 3$ will have infinitely many solutions is
(A) 3 (B) -3 (C) -12 (D) no value

Q30. Vijay had some bananas, and he divided them into two lots A and B. He sold the first lot at the rate of Rs 2 for 3 bananas and the second lot at the rate of Re 1 per banana, and got a total of Rs 400. If he had sold the first lot at the rate of Re 1 per banana, and the second lot at the rate of Rs 4 for 5 bananas, his total collection would have been Rs 460. Find the total number of bananas he had.

Draw any one project from the list given below:

LIST OF PROJECTS

1. To develop Heron's formulae for area of a triangle.
2. Story of π .
3. Development of Number Systems with their needs.
4. Chronology of Indian Mathematicians with their contributions.
5. Chronological development of solution of quadratic equations.
6. Development of Formula for the area of a cyclic quadrilateral.
7. Pythagoras Theorem-Proofs other than given in the present textbook.
8. Extensions of Pythagoras Theorem.
9. With rectangle of given perimeter finding the one with a maximum area and with rectangle of given area, finding the one with least perimeter.
10. Knowledge and classification of solid figures with respect to surface areas and volumes.
11. Sum of the exterior angles of a polygon taken in an order.
12. Generation of Pythagorean triplets.
13. Magic squares.
14. With cuboids of given surface area, finding the one with maximum volume and with cuboids of given volumes finding one with least surface area.
15. Mathematical designs and patterns.
16. Indian Mathematicians and their contributions.
17. To prepare a list of quotations on mathematics.
18. Ramanujan number (1729)
19. Mathematical Crosswords
20. Application of Geometry in day-to-day life
21. Application of Algebra in day-to-day life.
22. Application of Mensuration in day-to-day life.

*** Project is compulsory for all, each student has to make at least one project and make a separate project file. Special consideration to working modals.**

SCIENCE (PHYSICS) WORKSHEET

Section-A

Q-1 You have three resistors of r ohm each and battery of E volts for stop how will you obtain these resistors with the battery to obtain maximum current the value of current will be

- A. $3E/r$
- B. $3E/r^2$
- C. $3Er$
- D. $3r$

Q-2 An electrical appliance has a resistance of 25Ω . When this electrical appliance is connected to a 230 V supply line, the current passing through it will be:

- A. 0.92 A

B. 2.9 A

C.9.2 A

D.92 A

Q-3 Assertion: Bending of wire does not affect its electrical resistivity

Reason: Resistance of a wire is proportional to resistivity

Q-4 Assertion : Resistance of a wire decreases on increasing current

Reason: Resistance of a wire depends upon voltage

Section -B

Q-5 Ammeter burns out when connected in parallel . Give reason.

Q-6 The current passing through a conductor is doubled what will be the change in heat produced. Justify

Q-7 Why is a series arrangement not used for connecting domestic electrical appliances in a circuit ?

Q-8 How to connect two resistors with resistance 5 ohm and 10 ohm respectively to a battery of 6V so as to get the maximum current.

Q- 9 Will current flow more easily through a thick wire or a thin wire of the same material, when connected to the same source ? Why ?

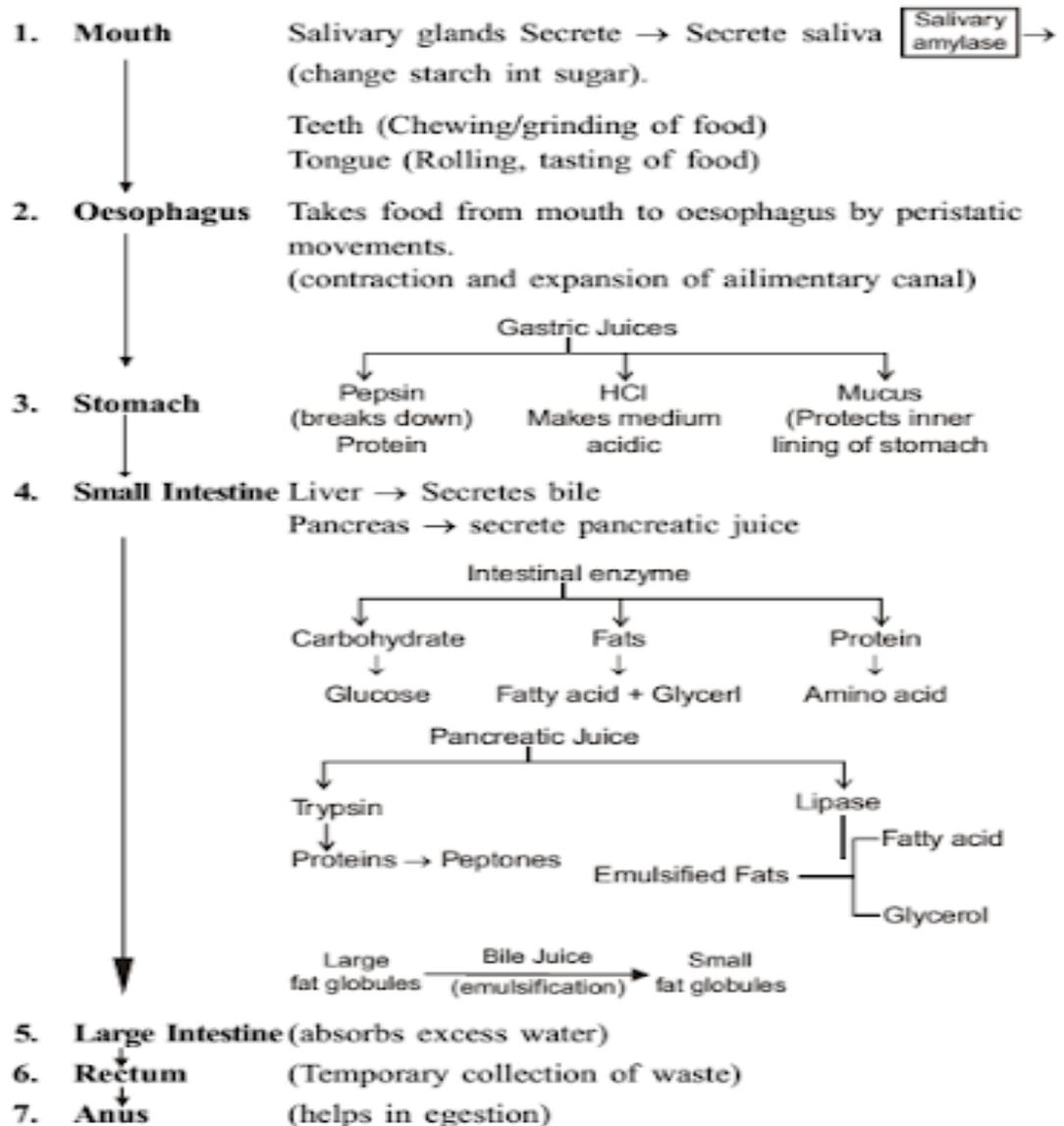
Section -C

Q-10 (A) Current I flowing through a resistor result in dissipation of power P . By what percentage will the power dissipated in the resistor increase if the current through the resistor is increased by 50%? 65 answer with the help of mathematical calculations.

(B) A wire of resistance 5 ohm is bent in the form of a closed circle. What is the effective resistance between the two points at end of any diameter of the circle

BIOLOGY WORKSHEET

1. Study the given mind map showing the process of digestion in human beings. Draw it in your Biology notebooks.



II. Answer the following questions based on 'Nutrition':

- 1) State the location and function of gastric glands.
- 2) Name the reserved food of plant cell.
- 3) Name the stored food of animals.
- 4) In which part of the digestive system water is absorbed?
- 5) Which type of nutrition is present in tape worm?
- 6) How do autotrophs obtain CO₂ and N₂?
- 7) Name the tissues which (a) transport soluble products of photosynthesis in plants,
(b) transport water and minerals in plants?

- 8) What role does bile play in digestion?
- 9) Where does digestion of fats take place in our body?
- 10) What is the role of saliva in the digestion of food?
- 11) What is the role of acid in our stomach?
- 12) What is the function of digestive enzymes?
- 13) Why do herbivores have longer small intestine than carnivores?
- 14) How does paramecium obtain its food?
- 15) Name the digestive enzymes secreted in the human digestive system and write their functions.
- 16) What are the final products of carbohydrates, proteins and fats after their digestion ?
- 17) Why does the medium become acidic in mouth? What is the ill effect of this acidic medium? How can this be prevented?
- 18) Where do plants get each of the raw materials required for photosynthesis?
- 19) How is small intestine designed to absorb the digested food?
- 20) Why does a piece of bread taste sweet when chewed for some time?
- 21) Assume that you are a veterinary surgeon and you had removed a good length of the small intestine of a bear that was suffering from an intestinal tumour. Now, would you suggest a plant based or a meat based diet for the bear after its recovery? Give reason for your answer.
- 22) Give reason why mucus is secreted along with HCl in the stomach.
- 23) Define the term enzyme.
- 24) Describe heterotrophic mode of nutrition with examples. Name the three types of this nutrition.
- 25) What will happen if peristaltic movements do not occur all along the oesophagus?
- 26) Represent the equation of photosynthesis. Explain the steps involved in photosynthesis. In which way are the steps of photosynthesis different in desert plants?
- 27) The inner lining of the small intestine has numerous finger-like projections. What are they called? List their functions.
- 28) How is the required pH maintained in the stomach and small intestine?
- 29) Name the enzymes present in pancreatic juice and give their functions.
- 30) Differentiate between heterotrophic and autotrophic nutrition.

CHEMISTRY WORKSHEET

Q1. When the solution of substance X is added to a solution of potassium iodide, then a yellow solid separates out from the solution.

- (a) What do you think substance X is likely to be ?
- (b) Name the substance which the yellow solid consists of .
- (c) Which characteristic of chemical reactions is illustrated by this example ?
- (d) Write a balanced chemical equation for the reactions which takes place. Mention the physical states of all the reactants and products involved in the chemical equation.

Q2. When water is added gradually to a white solid X , a hissing sound is heard and a lot of heat is produced forming a product Y . A suspension of Y in water is applied to the walls of a house during white washing . A clear solution of Y is also used for testing carbon dioxide gas in the laboratory .

- (a) What could be solid X ? Write its chemical formula
- (b) What could be product Y ? Write its chemical formula .
- (c) What is the common name of the solution of Y which is used for testing carbon dioxide gas ?
- (d) Write chemical equation of the reaction which takes place on adding water to solid X.
- (e) Which characteristic of chemical reactions is illustrated by this example ?

Q3. When metal X is treated with a dilute acid Y, then a gas Z is evolved which burns readily by making a little explosion .

- (a) Name any two metals which can behave like metal X.
- (b) Name any two acids which can behave like acid Y.
- (c) Name the gas Z.
- (d) Is the gas Z lighter than or heavier than air ?
- (e) Is the reaction between metal X and dilute acid Y exothermic or endothermic ?
- (f) By taking a specific example of metal X and dilute acid Y, write a balanced chemical equation for the reaction which takes place. Also indicate physical states of all the reactants and products .

Q4. A solid substance P which is very hard is used in the construction of many buildings , especially flooring. When substance P is heated strongly, it decomposes to form another solid Q and a gas R is given out. Solid Q reacts with water with the release of a lot of heat to form a substance S. When gas R is passed into a clear solution of substance S, then a white precipitate of substance T is formed. The substance T has the same chemical composition as starting substance P.

- (a) What is substance P? Write its common name as well as chemical formula.
- (b) What is substance Q ?
- (c) What is gas R?
- (d) What is substance S? What is its clear solution known as ?
- (e) What is substance T? Name any two natural forms in which substance T occurs in nature .

Q5. A silvery-white metal X taken in the form of ribbon, when ignited, burns in air with a dazzling white flame to form a white powder Y. When water is added to powder Y, it dissolves partially to form another substance Z .

- What could metal X be ?
- What is powder Y ?
- With which substance metal X combines to form powder Y ?
- What is substance Z ? Name one domestic use of substance Z .
- Write a balanced chemical equation of the reaction which takes place when metal X burns in air to form powder Y.

Q6. A metal X forms a salt XSO_4 . The salt XSO_4 forms a clear solution in water which reacts with sodium hydroxide solution to form a blue precipitate Y. Metal X is used in making electric wires and alloys like brass .

- What do you think metal X could be ?
- Write the name, formula and colour of salt XSO_4 .
- What is the blue precipitate Y?
- Write a chemical equation of the reaction which takes place when salt XSO_4 reacts with sodium hydroxide solution. Give the state symbols of all the reactants and products which occur in the above equation.

Q7. The metal M reacts vigorously with water to form a solution S and a gas G. The solution S turns red litmus to blue whereas gas G, which is lighter than air, burns with a pop sound. Metal M has a low melting point and it is used as a coolant in nuclear reactors .

- What is metal M ?
- What is solution S ? Is it acidic or alkaline ?
- What is gas G ?
- Write a balanced chemical equation for the reaction which takes place when metal M reacts with water.
- Is this reaction exothermic or endothermic ?

Q8. When a mixture of gases X and Y is compressed to 300 atm and then passed over a catalyst consisting of a mixture of zinc oxide and chromium oxide (heated to a temperature of 300°C), then an organic compound Z having the molecular formula CH_4O is formed . X is a highly poisonous gas which is formed in appreciable amounts when a fuel burns in a limited supply of air, Y is a gas which can be made by the action of a dilute acid on an active metal, and Z is a liquid organic compound which can react with sodium metal to produce hydrogen gas .

- What are X, Y and Z ?
- Write a balanced chemical equation of the reaction which takes place when X and Y combine to form Z . Indicated the conditions under which the reaction occurs.

Q9. The white solid compound A decomposes quite rapidly on heating in the presence of a black substance X to form a solid compound B and a gas C. When an aqueous solution

compound B is reacted with silver nitrate solution, then a white precipitate of silver chloride is obtained along with potassium nitrate solution . Gas C does not burn itself but helps burn other things.

- (a) What is compound A?
- (b) What is compound B ?
- (c) What is gas C ?
- (d) What do you think is the black substance X ? What is its function ?
- (e) What is the general name of substances like X ?

Q10. Gas A, which is the major cause of global warming, combines with hydrogen oxide B in nature in the presence of an environmental factor C and a green material D to form a six carbon organic compound E and a gas F. The gas F is necessary for breathing .

- (a) What is gas A ?
- (b) What is the common name of B ?
- (c) What do you think could be C ?
- (d) What is material D ? Where is it found ?
- (e) Name the organic compound E .
- (f) What is gas F ? Name the natural process during which it is released .

I.T WORKSHEET

- Q1. List the different types of verbal communication. Include examples for each verbal communication type.
- Q2. What do you mean by feedback? Let's take a scenario. Radha is your co-worker. Together you are making a report on how to manage the waste in your store. Since she has not completed her work on time, the whole report has got delayed and the manager has given you both a warning. Write down the feedback you would like to give your workers on time management. Try to keep the feedback specific and polite.
- Q3. Write down the common communication barriers you may come across when you move to a new city or country.
- Q4. Write two sentences of each type of sentence — Assertive, question, exclamatory and Imperative.
- Q5. Describe stress and stress management in your own words.
- Q6. List your favourite stress management technique and elaborate on why you find it the most effective for you.
- Q7. In SMART goals, what does 'S' stand for? Explain.

SOCIAL SCIENCE HOMEWORK

(1) Every student has to compulsorily undertake any one project on the following topics:

(A) Consumer Awareness

OR

(B) Social Issues

OR

(C) Sustainable Development

Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report. If required students may use data record and use different primary and secondary resources to prepare the project. If possible, different forms of art may be integrated in the project work. The Project Report should be handwritten by the student.