

SRI GURU NANAK PUBLIC SCHOOLADARSH NAGAR, DELHI-110033

SUMMER VACATIONS, HOLIDAYS HOMEWORK (2024-25)

CLASS - X

ENGLISH

GENERAL INSTRUCTIONS

- 1. Take out the print out of the worksheets and paste them neatly in the fair notebook.**
- 2. Write the answers of grammar in the worksheet itself.**
- 3. Write the answers of Literature and Writing Skill in the notebook**
- 4. The work must be presentable and done in neat and clean handwriting.**
- 5. All the questions are compulsory.**
- 4. The work will be assessed for the internals.**
- 5. Revise the syllabus covered till now.**
- 6 .Read English Newspaper daily and learn at least two new words along with synonyms.**

GRAMMAR

Q1 Complete the following sentences using the correct form of the verb given in brackets.

- 1. The thief (catch) red-handed.**
- 2. A bomb scare (delay) the flight by almost two hours.**
- 3. The stadium (reverberate) with dance, music and drama as troupes from different parts of the country (present) a panorama of color and costume.**
- 4. I (spend) the whole day yesterday in bed.**
- 5. Students from different parts of the country (participate) in the program.**
- 6. It is true that Jim-Corbett (love) animals but he also (kill) many man-eaters.**

7. I (learn) Telugu from a friend who (hail) from Andhra Pradesh.

8. The bridge across the river (build) some two hundred years ago.

9. The wicked people who (smuggle) brown sugar into the town (arrest) yesterday.

10. Last night, the clouds (thunder) in the sky.

Q 2 Fill in the blanks with an appropriate tense form.

1. The winners by all. (congratulate)

2. I to find a snake under my bed. (horrify)

3. The guests a warm welcome. (give)

4. The injuredto hospital. (take)

5. I a lot of time on that project. (waste)

6. She still in that home. (live)

7. She asked me if I her wallet. (see)

8. I will call you as soon as I home. (reach)

9. You will feel better after you something. (eat)

10. What are you going to do while I away? (be)

11. Can I borrow your book once you with it? (finish)

12. When they found her she unconscious on the pavement. (lie)

13. Although he is not really qualified for the job, he for it. (apply)

14. You (hurt) yourself if you fall.

15. It has been a long time since I anything from him. (hear)

Q 3. Fill in the blanks with most suitable determiners from the options given below.

1. books are missing from the library.

(a) A (b) Any (c) This (d) Some

2. She has not solved sums.

(a) much (b) any (c) many (d) a

3. This book is mine but book is yours.

- (a) that (b) this (c) any (d) every

4. boys have done their work.

- (a) That (b) These (c) Any (d) A

5. He didn't make progress.

- (a) many (b) some (c) much (d) every

6. He has forgotten of the details.

- (a) any (b) every (c) first (d) some

7. The minister visited flood-affected area.

- (a) some (b) every (c) either (d) any

8. villa is this?

- (a) What (b) Which (c) Whose (d) Any

9. He is the boy who has joined this gym.

- (a) first (b) every (c) any (d) some

10. I met her week.

- (a) those (b) any (c) this (d) first

11. novel is very interesting.

- (a) Some (b) This (c) Any (d) Those

12. the boys joined the race.

- (a) Some (b) All (c) Few (d) None of these

13. Suddenly lights went out.

- (a) an (b) a (c) the (d) any

14. The dog is animal.

- (a) the (b) a (c) an (d) which

15. people visit this temple now.

- (a) A (b) That (c) Few (d) Little

16. She is good girl.

(a) an (b) a (c) any (d) few

17. Would you like to buy books?

(a) this (b) few (c) those (d) that

18. daughter is beautiful.

(a) A (b) Any (c) Your (d) Many

19. I shall meet him the week.

(a) many (b) any (c) every (d) next

20. He has daughters.

(a) some (b) two (c) these (d) which

21. They had guests already.

(a) any (b) some (c) that (d) first

22. There was water in the jug.

(a) all (b) which (c) a little (d) either

23. I agree with word he says.

(a) every (b) much (c) an (d) a few

24. of the two girls should come here.

(a) Some (b) Every (c) Either (d) Each

25. answer is correct.

(a) Many (b) Neither (c) Few (d) What

Q4. Fill in the blanks with suitable modals.

If we sit in an incorrect posture, we (a) strain our back. As far as possible, this (b) be avoided. If the posture becomes a part of habit, a low back pain invariably develops. It (c) be cured if we become conscious of our posture. We can also take time out to perform a few exercises. If the exercises are done regularly, the backache (d) certainly, be cured. It (e) also improve the blood circulation within the spine

Times have changed. Nowadays, you (a) rush off to travel agent to book tickets for a journey. You (b)..... sit at home and book them over the Internet. However, the experience of one British couple (c) be a warning to

everyone. You (d) assume that if you book on the net, mistakes won't happen. That's why you (e) always check bookings carefully. If you don't, you (f) find yourselves in the wrong part of the world. That's exactly what happened to Emma Dunn and Raoul Sebastian. They set off from London in a large plane, thinking they were on their way to Sydney, Australia. They (g) understand what was happening when they landed at an airport and were asked to transfer to a much smaller plane. It (h) been quite a shock when they finally discovered they were in Canada. They (i) read their tickets more carefully, because they were booked for Sydney, Nova Scotia, Canda

Q5. Rewrite the following sentences using the words given in the brackets.

a) It's not necessary to buy the cap. (need)

b) The hotels will be full, possibly. (might)

c) I'm sure it is the sun cream you are allergic to. (must)

_____ -

d) It's not possible for us to change the weather. (can't)

e) Is it a good idea to take it with us this time? (should)

WRITING SKILLS

Q6. You are Nithin, residing in Thiruvananthapuram, Kerala. You have to write a letter to the editor of a national daily bringing attention to the problem of increased prices of vegetables, like onions and tomatoes. Due to this poor families are not able to cook nutritious food.

Q7. You are Priyanka Chopra, resident of 20, Paradise Colony, MayurVihar, Panchkula. There has been an alarming rise in accidents in your neighbourhood, especially on the National Highway. More than 11 deaths have been reported in the previous month alone, yet the number is on the rise. Write a letter to the Editor, The Tribune, Chandigarh, expressing your concern and suggestion.

Q8. You are Rahul living at 7, Raven Organics, Orchard Road Mumbai. You purchased a washing machine last week from Tirupati Stores Nampally , Mumbai

but it is not working properly. Write a complaint letter to the dealer to raise the issue regarding the same with necessary details.

Q9. You are Ajay, a student of Fly High International School, New Delhi. Write a letter to the principal of the school complaining to him about the poor quality of food served in the school canteen

LITERATURE

- 1. The postmaster was a representative of God. Evaluate this statement in the context of your understanding of ‘A Letter to God’**
- 2. What does the presence of a hemlock tree tell you about the setting of the poem?**
- 3. The dusting of snow on account of the crow helped make the poet’s day better. How do you think the crow’s droppings might have impacted the poet?**
- 4. Evaluate the line- Some say the world will end in fire/Some say in ice- in the context of volcanic eruptions, forest fires, meteor collisions, melting ice caps etc.**
- 5. Imagine that Nelson Mandela read ‘Fire and Ice’.**

As Mandela, write a diary entry associating the impact of the troubled history of South Africa with the idea expressed in the poem.

You may begin like this:

10 May 1994, Tuesday 10 p.m.

Today, when I am the President of South Africa, I can’t help recalling Robert Frost’s ‘Fire and Ice’.....

- 6. Mandela feels that courage is triumph over fear. How would you define courage in this context?**
- 7. Mandela says that his country’s greatest wealth is its people and not the purest diamonds. Justify his statement**
- 8. The young seagull’s parents wanted him to fly, like his brothers and sister. How could the young seagull’s newly flying siblings (Brother 1, Brother 2 and Sister) have motivated him?**

Write a brief conversation among them.

9. What do you think prompted the narrator to act like “an obedient child”?(THE BLACK AEROPLANE)

10. Based on your reading (THE BLACK AEROPLANE), would you call the narrator a family man? Justify your stance.

HINDI

1. पोर्टफोलियो बनाएँ जो कि साथमेंसंलग्न किया गयाहै ।
2. कबीरकीसखियोंकासारअपनेशब्दोंमेंलिखिए।
3. अपठितगद्यांशसेसंबंधितकार्यपत्रिकाकरें।
4. पाठ्यपुस्तकमेंविद्यमानकिसीभीएककवि/लेखकपरसचित्रपरियोजनातैयारकीजिए।
(कवि/लेखकका परिचय, रचनाओंकेनामवरचनाओंकासंक्षिप्तपरिचय, पुरस्कार, आपकाकवि/लेखककेबारेमेंविचार, उनकी रचनापरटिप्पणीवअन्यजोउचितलगे)
5. कक्षामेंकरवायागयाकार्यपूराकरेंतथामाइक्रोटेस्ट-1 कापाठ्यक्रमयादकरें।
6. विद्यालयपत्रिकाहेतुअपनीहिंदीभाषामेंरचनाएँ (कविता/लेख) अवश्यलेकरआएँ।
येरचनाएँस्वरचितहोनी चाहिए। टाइपकीहुईयाहाथसेलिखीहुईहोसकतीहै।

कार्यपत्रक-1

निम्नलिखितगद्यांशकोपढ़करनीचेदिगाएप्रश्नोंकेउत्तरदीजिए।

विज्ञाननेमनुष्यकोमशीनबनादियाहै,

यहकहनाउचितनहींहै। मशीनोंकाआविष्कारमनुष्यनेअपनीसुख-सुविधाके

लिएकियाहै। यदिमशीनेंनहींहोतीं,

तोमनुष्यइतनीतेजीसेप्रगतिनहींकरपाताएवंउसकाजीवनतमामतरहके

झंझावातोंकेबीचहीगुमहोकररहजाता। मशीनोंसेमनुष्यकोलाभहुआहै, यदिउसेभौतिकसुख-सुविधाएँप्राप्तहोरही

हैं,

तोउसमेंमशीनोंकायोगदानप्रमुखहै। मशीनोंकोकार्यान्वितकरनेकेलिएमनुष्यकोउन्हेंपरिचालितकरनापड़ताहै

जिससे कार्य करने में उसे अधिक परिश्रम नहीं करना पड़ता। यदि कोई व्यक्ति मशीन के बिना कार्य करे, तो उसे अधिक परिश्रम

करने की आवश्यकता पड़ेगी। इस दृष्टि से देखा जाए, तो मशीनों के कारण मनुष्य का जीवन यंत्रवत् नहीं हुआ है, बल्कि उसके

लिए हर प्रकार का कार्य करना सरल हो गया है। यह विज्ञान का ही वरदान है कि अब डेबिट-क्रेडिट कार्ड के रूप में लोगों के

पर्स में प्लास्टिक मनी आ गई है और वे जब भी चाहें, रुपये निकाल सकते हैं। रुपये निकालने के लिए अब बैंकों में घंटों लाइन में

लगने की जरूरत ही नहीं। पहले लंबी दूरी की यात्रा करना मनुष्य के लिए अत्यंत कष्टदायी होता था। अब विज्ञान ने मनुष्य की

हर प्रकार की यात्रा को सुखमय बना दिया है। सड़कों पर दौड़ती मोटर गाड़ियाँ एवं एयरपोर्ट पर लोगों की भीड़ इसका

उदाहरण हैं। पहले मनुष्य के पास मनोरंजन के लिए विशेष साधन उपलब्ध नहीं थे। अब उसके पास मनोरंजन के हर प्रकार के

साधन उपलब्ध हैं। रेडियो, टेपरिकॉर्डर से आगे बढ़कर अब एलईडी, डीवीडी एवं डीटीएच, कंप्यूटर, इंटरनेट, मोबाइल का

जमाना आ गया है। यही नहीं मनुष्य विज्ञान की सहायता से शारीरिक कमजोरियों एवं स्वास्थ्य संबंधी समस्याओं से छुटकारा

(निजात)

पाने में अब पहले से कहीं अधिक सक्षम हो गया है और यह सब संभव हुआ कि त्सा क्षेत्र में आई वैज्ञानिक प्रगति से।

प्रश्न-1. विज्ञान ने मनुष्यों को क्या दिया है? 1

(क) परिश्रम (ख) सुख-सुविधाएँ

(ग) मशीनें (घ) असुविधाएँ

प्रश्न-2. मशीनें नहीं होती तो क्या होता? 1

(क) मनुष्य खुश रहता (ख) मनुष्य तेजी से प्रगति नहीं कर पाता

(ग) मनुष्य झंझावातों से निकल जाता (घ) मनुष्य तेजी से प्रगति कर पाता

प्रश्न-3. मशीनोंसे मनुष्यके जीवनपर क्या प्रभाव पड़ा है? 1

(क) उसका प्रत्येक कार्य सरल हो गया है (ख) उसका जीवन यंत्र बंध गया है

(ग) उसका प्रत्येक कार्य कठिन हो गया है (घ) उसे अधिक परिश्रम करना पड़ता है

प्रश्न-4. प्लास्टिक मनी क्या है? 2

प्रश्न-5. मनोरंजनके विशेष साधन क्या-क्या हैं?

PUNJABI

ਗੁਰੂ ਨਾਨਕ ਪਾਤਸ਼ਾਹ ਜੀ ਦੇ ਜੀਵਨ ਸੰਬੰਧੀ ਆਪਣੇ ਵਲੋਂ ਇੱਕ ਕਵਿਤਾ A -4 ਸ਼ੀਟ ਤੇ ਲਿਖੋ।

ਜਮਾਤ ਵਿੱਚ ਕਰਵਾਏ ਸਾਰੇ ਕੰਮ ਦੀ ਦੁਹਰਾਈ ਕਰੋ।

ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਤੇ ਵਿਸਥਾਰ ਸਹਿਤ ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕਰੋ :-

1. ਮਨੋਵਿਗਿਆਨ 2. ਮਨਜੀ ਤੈਜਗੁਜੀਤੁ ॥ 3. ਭਾਈ ਵੀਰ ਸਿੰਘ ਜੀ

*Note

ਪ੍ਰੋਜੈਕਟ ਦਾ ਕੰਮ ਅੱਠ ਤੋਂ ਦਸ ਪੰਨੇ

Title page ਮੁੱਖ ਪੰਨਾ

ਮੁੱਖਬੰਧ

ਤੱਤਕਰਾ (Index)

ਤਸਵੀਰਾਂ ਦੀ ਮਦਦ ਨਾਲ ਪ੍ਰੋਜੈਕਟ ਦਾ ਵਿਸਤਾਰ

ਕਰੋ।

ਅੰਤਕਾ

ਸਹਾਇਕ ਸਮੱਗਰੀ।

MATHEMATICS

GENERAL INSTRUCTIONS:

- Do the Maths Lab Activity on coloured sheets.
- Paste the Assignments neatly and complete in Maths HW copy.

TASK 1 : PRACTICE THOROUGHLY FOR MICRO TEST 1

TASK 2 : MATHS LAB ACTIVITY:

- **TOPIC: COORDINATE GEOMETRY**

AIM: To verify the distance formula graphically.

TASK 3 : ASSIGNMENT OF CH 7 COORDINATE GEOMETRY

TASK 4 : COMPETENCY BASED QUESTIONS

1. The largest number that divides 70 and 125, which leaves the remainders

5 and 8, is:

(a) 65 (b) 15 (c) 13 (d) 25

2. The values of x and y in the given figure are:

(a) $x = 10$; $y = 14$ (b) $x = 21$; $y = 84$

(c) $x = 21$; $y = 25$ (d) $x = 10$; $y = 40$

3. The least number that is divisible by all the numbers from 1 to 5 is:

(a) 70 (b) 60 (c) 80 (d) 90

4. What will be the least possible number of the planks, if three pieces of timber 42 m, 49 m and 63 m long have to be divided into planks of the same length?

(a) 5 (b) 6 (c) 7 (d) none of these

5. If the zeroes of a quadratic polynomial are 5 and -6 , then the coefficient of x^2 is

(a) -1 (b) 1 (c) 5 (d) -6

6. If one zero of polynomial $kx^2 + 4y^2 + 13xy + 4$ is the reciprocal of the other, then value of k is

(a) 1 (b) -1 (c) 2 (d) -2

7. The sum and product of the zeroes of the polynomial $9x^2 - 5$ respectively are :

(a) $0, -9/5$ (b) $0, 9/5$ (c) $0, 5/9$ (d) $0, -5/9$

8. The graph of a polynomial $f(x)$ passes through the points $(-5,0), (0,-40), (8,0)$ and $(5,-30)$. Which among the following is a factor of $f(x)$?

(a) $(x - 5)$ (b) $(x - 8)$ (c) $(x + 30)$ (d) $(x + 40)$

9. If α and β are the zeroes of $5x^2 - 7x + 2$, then the sum of their reciprocals is:

(a) $7/2$ (b) $7/5$ (c) $2/5$ (d) $14/25$

10. The distance of the point $(-6, 8)$ from the origin is

(a) 8 (b) 11 (c) 10 (d) 9

11. The points on x-axis at a distance of 10 units from $(11, -8)$ are

(a) $(5, 2)$ (b) $(17, 0)$ (c) $(6, 0)$ (d) $(5, 0)$ (e) $(16, 0)$

12. A point on the y-axis which is equidistant from the point A $(6, 5)$ and B $(-4, 3)$ is

(a) $(0, 10)$ (b) $(0, 9)$ (c) $(0, -7)$ (d) $(0, 6)$

13. For the following distribution

C.I. 0-5 5-10 10-15 15-20 20-25

F 10 15 12 20 9

the difference of the upper limit of the median class and the lower limit of the modal class is

(a) 0 (b) 5 (c) 10 (d) -5

14. The average weight of a group of 25 men was calculated to be 78.4 kg. It was discovered later that one weight was wrongly entered as 69 kg instead of 96 kg. What is the correct average?

(a) 75.76 (b) 77.56 (c) 79.48 (d) 80.30

15. For the following distribution

Marks	0-10	10-20	20-30	30-40	40-50
No. of students	3	9	13	10	5

the number of students who got marks less than 30 is

(a) 13 (b) 25 (c) 10 (d) 12

Directions (Q16-25) : In the following questions, a statement of Assertion

(A) is followed by a statement of Reason(R) .Mark the choice as :

(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

(b) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

(c) Assertion (A) is true but Reason (R) is false.

(d) Assertion (A) is false but Reason (R) is true

16. Assertion: 2 is an example of a rational number.

Reason: The square roots of all positive integers are irrational numbers.

17. Assertion: 2^n ends with the digit zero, where n is any natural number.

Reason: Any number ends with digit zero, if its prime factor is of the form $2^m \times 5^n$, where m and n are natural numbers.

18. Assertion: HCF of 12, 21 and 15 is 3.

Reason: HCF of two or more numbers = Product of smallest power of each

common factor.

19. Assertion: If the sum of the zeroes of the quadratic polynomial $x^2 - 2kx + 8$ is 2 then value of k is 1.

Reason: Sum of zeroes of a quadratic polynomial $ax^2 + bx + c$ is $-b/a$

20. Assertion: The polynomial $x^2 - 2x + 2$ has two real zeroes.

Reason: A quadratic polynomial can have at most two real zeroes.

21. Assertion: $x^2 + 4x + 5$ has two real zeroes.

Reason: A quadratic polynomial can have at the most two zeroes.

22. Assertion: The point $(-1, 6)$ divides the line segment joining the points $(-3, 10)$ and $(6, -8)$ in the ratio $2 : 7$ internally.

Reason: Given three points, i.e. A, B, C form an equilateral triangle, then $AB = BC = AC$.

23. Assertion: Mid-point of a line segment divides line in the ratio $1 : 1$.

Reason: The ratio in which the point $(-3, k)$ divides the line segment joining the points $(-5, 4)$ and $(-2, 3)$ is $1 : 2$.

24. Assertion: If the value of mode and mean is 60 and 66 respectively, then the value of median is 64.

Reason: $\text{Median} = (\text{mode} + 2 \text{ mean})/2$

25. Consider the data:

C.I. 4 - 7 8 - 11 12 - 15 16 - 19

F 5 4 9 10

Assertion: The mean of above data is 12.93.

Reason: In the above table, modal class is 16 – 19.

CASE STUDY – 1

To enhance the reading skills of grade X students, the school nominates you and two of your friends to set up a class library. There are two sections- section A and section B of grade X. There are 32 students in section A and 36 students in

section B

1. What is the minimum number of books you will acquire for the class library, so that they can be distributed equally among students of Section A or Section B?
2. If the product of two positive integers is equal to the product of their HCF and LCM is true, then find the HCF (32, 36).
3. Express 136 as a product of its primes.
4. If p and q are positive integers such that $p = ab^2$ and $q = a^3b$, where a, b are prime numbers, what is the LCM (p, q)?

CASE STUDY – 2

The students of class X of a school in Krishnagar have been allotted a rectangular plot of land for their gardening activity. Saplings of Gulmohar are planted on the boundary at a distance of 1 m from each other. There is triangular grassy lawn in the plot as shown in the figure. The students are to sow seeds of flowering plants on the remaining area of the plot.

1. Taking A as origin, find the coordinates of P.
2. Taking A as origin, find the distance between Q and R.
3. What will be the coordinates of R, if C is the origin?
4. Taking C as origin, what will be the mid point of the line joining P and Q?

CASE STUDY – 3

Applications of Parabolas-Highway Overpasses/Underpasses A highway underpass is parabolic in shape. A parabola is the graph that results from $y = ax^2 + bx + c$.

1. If the highway overpass is represented by $y = x^2 + 2x + 8$, then find its zeroes.
2. Find a quadratic polynomial which represents Highway Underpass whose one zero is 6 and sum of the zeroes is 0.
3. Find the number of zeroes that polynomial $y = (x - 2)^2 + 4$ can have.

CASE STUDY – 4

The COVID-19 pandemic, also known as coronavirus pandemic, is an ongoing

pandemic of coronavirus disease caused by the transmission of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) among humans.

The following tables shows the age distribution of case admitted during a day in two different hospitals

Refer to table 1

- 1. What is the average age for which maximum cases occurred?**
- 2. What is the upper limit of modal class?**
- 3. What is the median of the given data?**

Refer to table 2

- 4. What is the mode of the given data?**
- 5. What is the median of the given data?**

SCIENCE

BIOLOGY :

Q1.What is meant by nutrition? Why is it necessary for living organisms?

Q2.What is the difference between autotrophic and heterotrophic nutrition? Give examples.

Q3.How do living organisms obtain nutrients from their food?

Q4.What is the role of digestive enzymes in the process of digestion?

Q5.What are the different stages of digestion? Explain each stage.

Q6.How is food absorbed in the small intestine?

Q6.What is the role of villi in the small intestine?

Q7.What is the difference between aerobic and anaerobic respiration?

Q8.What is the importance of cellular respiration in living organisms?

Q9.What is the role of mitochondria in respiration?

Q10.How do plants breathe? Explain the process of respiration in plants.

What is the function of respiratory system in humans?

Q11.What are the different types of respiratory organs in animals?

- Q12.Explain the mechanism of breathing in humans.**
- Q13.What are the different respiratory disorders? Explain each one of them.**
- Q14.How is the rate of respiration affected by various factors like temperature and exercise?**
- Q15.What is the difference between breathing and respiration?**
- Q16.Explain the role of ATP in cellular respiration.**
- Q17. How is the energy obtained from food utilized by living organisms?**
- Q18.What are the different ways in which living organisms release energy?**
- Q19.Name the vein which brings blood to left atrium from lungs.**
- Q20.Write three types of blood vessels. Give one important feature of each.**
- Q21.Why are the walls of the ventricles thicker than the walls of the auricles.**
- Q22. What is double circulation?**
- Q23. Draw a well labeled diagram of heart.**

- **PRACTICE ALL DIAGRAMS GIVEN IN NCERT LIFE PROCESSES .DRAW THEM IN BIOLOGY NOTEBOOK (HW SIDE)**

- **NOTE HOLIDAYS HOMEWORK QUESTIONS IS TO BE DONE IN HOMEWORK SIDE OF THE BIOLOGY NOTEBOOK ONLY AND WILL BE EVALUATED AFTER THE VACATIONS FOR INTERNAL ASSESSMENT MARKS.**

PHYSICS

- 1. Revise syllabus for microtest scheduled in the month of July.**
- 2. Complete your practical files.**
- 3. Complete the assignments on reflection of light.**

CHEMISTRY

- 1. Revise Ch-1 Chemical equations and reactions.**
- 2. Complete your practical files. (As per the instructions given in class)**
- 3. Complete the given assignment of chapter 1 on HW side of your registers.**

Assignment

Q1. Write the balanced equation for the following chemical reactions.

1. Hydrogen + Chlorine → Hydrogen chloride

2. Barium chloride + Aluminium sulphate → Barium sulphate + Aluminium chloride

3. Sodium + Water → Sodium hydroxide + Hydrogen

4. Calcium hydroxide + Carbon dioxide → Calcium carbonate + Water

5. Zinc + Silver nitrate → Zinc nitrate + Silver

6. Aluminium + Copper chloride → Aluminium chloride + Copper

7. Barium chloride + Potassium sulphate → Barium sulphate + Potassium chloride

8. Potassium bromide(aq) + Barium iodide(aq) → Potassium iodide(aq) + Barium bromide(s)

9. Zinc carbonate(s) → Zinc oxide(s) + Carbon dioxide(g)

10. Magnesium(s) + Hydrochloric acid(aq) → Magnesium chloride(aq) + Hydrogen(g)

Q2. What happens when an aqueous solution of sodium sulphate reacts with an aqueous solution of barium chloride? State the physical conditions of reactants in which the reaction between them will not take place. Write the balanced chemical equation for the reaction and name the type of reaction.

Q3. When you have mixed the solutions of lead(II) nitrate and potassium iodide,

(i) what was the colour of the precipitate formed and can you name the precipitate?

(ii) Write the balanced chemical equation for this reaction.

(iii) Is this also a double displacement reaction?

Q4. A student takes 2g of Ferrous sulphate crystal in a dry test tube and heats the test tube. Answer the following questions on the basis of the observations made by the student.

a) Write an observation about colour of residue or smell of gas involved.

b) Name the type of chemical reaction.

c) Write balanced chemical equation for the reaction involved.

Q5. When food containing fat or oil is not used and left for a long time, their smell and taste changes. Name the process and state responsible for this change. List two methods to prevent or slow down the above change.

Q6. On heating green coloured crystals, a gas with a characteristic odour of burning sulphur evolves and the colour of crystals change.

(i) Name the gas evolved with its chemical formula.

(ii) Identify the green crystals.

(iii) Name the type of chemical reaction taking place.

Q7. A metal 'X' acquires a green colour coating on its surface on exposure to air.

(i) Identify the metal 'X' and name the process responsible for this change.

(ii) Name and write chemical formula of the green coating formed on the metal.

(iii) List two important methods to prevent the process.

Q8. What is redox reaction ? Identify the substance oxidised and the substance reduced in the following reactions:

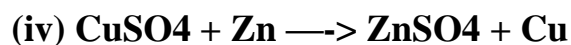
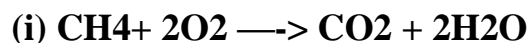


Q9. Barium chloride reacts with aluminium sulphate to give, Aluminium chloride and Barium sulphate.

(i) State the two types in which the above reaction can be classified.

(ii) Translate the above statement into a chemical equation.

Q10. Identify the type of reaction from the following equations:



SOCIAL SCIENCE

Every student has to compulsorily undertake one project on:

Consumer Awareness OR Social Issues OR Sustainable Development

1. The distribution of marks over different rubrics relating to Project Work is as follows:

S.NO	RUBRICS	MARKS
1.	Content Accuracy, originality & creative skills	2
2.	Competency exhibited & presentation	2
3.	Viva Voce	1

2. It is to be noted here by all the students that the projects and models prepared should be made from eco-friendly products without incurring too much expenditure.

3. The Project Report must be handwritten.

PUT ON YOUR THINKING CAPS & TAKE INTO ACCOUNT THESE POINTS

SOCIAL ISSUES-

Students can choose from the topics given below for social issues like :

- Poverty, Unemployment, Dowry, Drug Addiction, Child labour .
- Inclusive Education- Education of all in schools for all.
- Internet users must be vigilant against online frauds.
- Misuse of social media to spread hate.
- Nepotism in business, politics and entertainment.

CONSUMER AWARENESS

Students can choose from the topics given below for Consumer Awareness like:

- Meaning of Consumer awareness.
- Common ways of Consumer exploitation
- Role of government in Consumer protection – COPRA

SUSTAINABLE DEVELOPMENT

Students can choose from the topics given below for Sustainable Development like:

- **Need and importance of Sustainable development**
- **Examples of Sustainable development: Solar Energy, Wind Energy, Crop Rotation**
- **Goals and principles of Sustainable development**

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This is to acknowledge all those without whom this project would not have been possible. Firstly, I wish to thank our Social Science teacher _____ who gave her immense support and made us understand how to make this project. Without her guidance and support, this project would not have been completed.

I would like to express my special thanks of gratitude to our principal (Name of the principal) who gave me the golden opportunity to do this wonderful project on the topic (Write the topic name), which also helped me in doing a lot of Research and enhance my knowledge in this area.

Secondly I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

The subject matter contained in the project has been widely taken from the internet. The statistical data has been extracted from

_____.

FULL NAME OF THE STUDENT

CLASS & SECTION

Information Technology

Revise the ch-1 Communication Skills and Digital Documentation(Advanced)

Read the Part-B, Ch-3 Database Management System

Do Practicals of Digital Documentation

- 1. Apply Styles on paragraph of any topic**
- 2. Make a Flyer using images and drawing objects**
- 3. Create a Template for Invitation to the birthday Party**
- 4. Apply Table of Contents**

Sample file will be shared on group soon.

Assignment

Do this Assignment in your Registers

- 1. What is Database?**
- 2. Explain DBMS.**
- 3. Differentiate between Flat File and a relational database**
- 4. Write any four advantages of database?**
- 5. What do you mean by Data Redundancy?**
- 6. What do you mean by Data Integrity?**
- 7. What are the application areas of Database Management System?**
- 8. What is RDBMS? State its significance.**
- 9. What is the difference between a primary key and foreign key? State the relationship between the two?**
- 10. Mention the various database objects.**
- 11. What is Attribute?**
- 12. What is tuple?**
- 13. What is the difference between cardinality and Degree of Relation?**
- 14. What is the difference between a form or query with respect to a database?**
- 15. What are the difference between row and columns in a database table?**