CLASS 10 SUMMER VACATION HOLIDAY HOMEWORK

Sub:- ENGLISH

1. Portfolio

2. Framing 20 MCQs from the lessons:

- **A Letter to God**
- **A Triumph of Surgery**
- **Dust of Snow**
- **Fire and Ice**

3. MDP

- **Topic: Inspirational Leaders**
- **(Biography of any five inspirational leaders with pictures- their struggles, contributions and achievements to be highlighted , should include world, Indian as well as regional leaders) (10 to 12 pages)**

Sub:- HINDI

प्रश्न **1.** पत्र- लेखन

1. अपने क्षेत्र में पार्क विकसित कराने के लिए नगर निगम अधिकारी को पत्र लिखिए।

2. अपने मित्र को प्रातः कालीन भ्रमण और योग काम महत्व बताते हुए एक प्रेरणा पत्र लिखिए।

प्रश्न **2.** अनुच्छेद लेखन

-प्रदूषण कारण और निवारण-
इंटरनेट काम महत्व

प्रश्न **3.** रचना के आधार पर वाक्य भेद उदाहरण सहित लिखिए।

प्रश्न **4.** पढाए गए पाठों के प्रश्न उत्तर याद करने है।

प्रश्न **5.** नेताजी सुभाष चंद्र बोस के व्यक्तित्व और कृतित्व पर एक प्रोजेक्ट बनाइए।

प्रश्न **6.** संज्ञा, सर्वनाम, विशेषण, क्रिया, क्रियाविशेषण को उदाहरण सहित लिखिए।

Sub:- MATHS

GENERAL INSTRUCTIONS: 1. This assignment should be done on a separate ruled sheet.
2. A cover page with the heading MATHS HOLIDAY HOMEWORK should be attached on the top.
3. Illustrate your answer by giving suitable examples/graphs/charts/figures/tables/diagrams wherever necessary.
4. Assignment should be clear, readable, and well presented.

SNO QUESTION 1 Sundaram joined a company for a fixed salary per month. After a few months, the management felt happy with his work and multiplied his salary by some n times. This happened every few months and his salary kept getting multiplied and he reached a salary of 36 K. Every time the management increased the salary by a prime number of times only and his initial salary was 5 K

1.1 How many times management did give incentive to Sundaram?
1.2 What is the maximum increment he got in his salary?
1.3 What is the least incentive he got? What would be his salary had he got the same type of increment every time?
1.4 Had his first salary been 9 K what would be his present Salary?

SNO QUESTION 2 Nobita, Zian and Suzuko are playing a game. Nobita climbs 5 stairs and gets down 2 stairs in one turn. Zian goes up by 7 stairs and comes down by 2 stairs every time. Suzuko goes 10 stairs up and 3 stairs down each

time. Doing this they have to reach to the nearest point of 100th stairs and they will stop once they find it impossible to go forward. (They have less number of stairs than required forward stairs).

2.1 Who reaches the nearest point? a)Nobita b) Zian c) Suzuko d) All together reach to the nearest point

2.2 How many times can they meet in between on same step?

2.3 What is the first stair where any two out of three will meet together?

2.4 Who takes least number of steps to reach near hundred. a)Nobita b) Zian c) Suzuko d) All take equal steps.

SNO QUESTION 3. A woman wants to organize her birthday party. She was happy on her birthday but there was a problem that she does not want to serve fast food to her guests because she is very health conscious. She has 15 apples and 40 bananas at home and decided to serve them. She want to distribute fruits among guests. She does not want to discriminate among guests so she decided to distribute equally among all.

3.1How many guests she can invite? a)6 b) 5 c) 3 d) 4

3.2 How many apples and bananas will each guest get?

3.3 If a guest claims that he got the highest no of fruits amongst all, is this situation possible? If yes, what will be the number of fruits that person got?

3.4 If the number of guests double then is it possible to distribute the fruits equally?

SNO QUESTION 4 An online shopping website sells `10 types of items which are packed into various sizes of cartons which are given below. Carton type Inner Dimensions (l x b)cm2 Small 6X8 Medium 12X24 Large 24X 36 Extra large 36 X 48 XXL 48 X 96 The company places supporting thermocol sheets inside every package along the edges. The company thought of procuring same sized sheets for all types of cartons.

4.1 What should be the maximum size of the sheet that fits into all type of cartons?

4.2 How many such sheet sizes are possible?

4.3 The company later introduced a new size of carton called semi large whose measurements are 14 X 15. Whether the existing maximum size sheet fits this shape?

4.4 What should have been the size of the semi large carton (which is larger than medium carton but smaller than large carton) so that the maximum sized sheet remains same?

SNO QUESTION 5 On a bright Sunday morning three friends A, B and C decided to go on river for fishing and boating. They decided to leave for the place together in the evening. The journey was smooth, it just went as scheduled then they reached to the river, and started to set the boat on sail. They were enjoying their ride with full speed. They started boating from a place to another place which is at a distance of 42 km and then again returns to the starting place. They took 20 hours in all. The time taken by them riding downstream in going 14 km is equal to the time taken by them riding upstream in going 6 km.

5.1 Form the pair of linear equations in two variables from this situation.

SNO QUESTION 6 Two teachers A and B went to a 'Sale' to purchase geometry box and notebooks for the prize distribution in Mathematics Quiz which will be organized next week in the school. The number of geometry box is one less than the number of notebooks purchased. Also, the three times number of geometry box is 12 less than two times the number of notebooks purchased".

6.1 Form the pair of linear equations in two variables from this situation.

6.2 Draw the graphs of the above equations.

Sub:- SCIENCE

I Complete practical file

II Make notes of our environment chapter.

III Solve these questions in hw notebook

1. In the equations given below, state giving reasons, whether substances have been oxidised or reduced.

(i) PbO + CO –> Pb + CO2 (ii) H2S + Cl2–>2HCl + S.

2. What are the characteristics of chemical reactions?

3. 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.

4. AgN03(aq) + NaCl(aq)————————> AgCl(s)4↓ + NaN03(aq) FeS + H2S04————> FeS04 + H2S↑

Consider the above mentioned two chemical equations with two different kinds of arrows (↑and ↓) along with product. What do these two different arrows indicate?

5. Balance the following chemical equations. (PbNO3)2 →PbO + NO2 + O2

6. Assertion (A) : Following is a balanced chemical equation for the action of steam on iron : 3Fe + 4H2O → Fe3O4 + 4H2

Reason (R): The law of conservation of mass holds good for a chemical equation.

(a) Both (A) and (R) are true and reason (R) is the correct explanation of the assertion (A)

(b) Both (A) and (R) are true, but reason (R) is not the correct explanation of the assertion (A).

(c) (A) is true, but (R) is false.

(d) (A) is false, but (R) is true.

7. Write balanced chemical equations for the following chemical reactions:

(a) Hydrogen + Chlorine → Hydrogen chloride

(b) Lead + Copper chloride → Lead chloride + Copper

(c) Zinc oxide + Carbon → Zinc + Carbon monoxide

8. Mention with reason the colour changes observe when:

(i) silver chloride is exposed to sunlight.

(ii) copper powder is strongly heated in the presence of oxygen.

(iii) a piece of zinc is dropped in copper sulphate solution.

Sub:- SOCIAL SCIENCE

PROJECT WORK(any one)(A4 Size Sheet 15-20 Pages)

i)Consumer Rights

ii)Social Issues (Unemployment or Poverty)

iii)Sustainable Development

QUESTION & ANSWERS

i)CH 1, History, Rise Of Nationalism In Europe

ii)CH1,Economy, Developments

Sub:- COMPUTER SCIENCE

1. APPLICATIONS OF AI IN DAILY LIFE

2. DOMAINS OF AI

3. SUSTAINABLE DEVOLPMENT GOALS

4. DIFF BETWEEN RULE BASED AND LEARNING BASED AI APPROCHES

5. DIFF BETWEEN SUPERVISED AND UNSUPERVISED AND REINFORCEMENT LEARNING MODELS

6. DIFF BETWEEN SCRIPT BOARDS AND SMART BOARDS

7. EVOLUTION OF COMPUTERS