Dear Parents,

The holiday season, often associated with joy and relaxation, also presents a golden opportunity through homework for meaningful engagement with learning and creative exploration. Designed to nurture creativity and critical thinking, the allocated assignments and tasks are structured to be engaging and cultivating deeper understanding.

Guidelines for completion:

1. All homework should be completed in a thin notebook (subject-wise), unless specified otherwise.
2. The work must be original. Ready-made materials should be avoided.
3. The holiday homework will be graded, and marks will be added to the subject enrichment score.

Celebrate the special Bond!

Father's Day: On Father's Day, take the opportunity to create heartfelt memories with your father. Spend time with your father, make him feel special and let him know how much he is valued and loved.

Embodying Magnanimity

Show compassion for the voiceless by placing a bowl of fresh water outside your home to offer respite to birds and stray animals in the summer heat.

Learn, create and return inspired!

Regards
Prabhat Academy

HOLIDAY HOMEWORK
GRADE: VIII

ENGLISH

—Summer is a time to rest, recharge, and explore new worlds — through pages, stories, and imagination. ‖

Guidelines:

- The following Holiday Homework should be completed on coloured A4 sheets assembled neatly in a file, and labelled with the student's name, class, and subject.
- Neatness, creativity, and originality will be appreciated.
- Use colours, drawings, or decorations to make your work presentable.
- The Holiday Homework will be evaluated as a part of Internal Assessment.

1. India's Pride

Instructions:

- Make a visual timeline showcasing 10 Padma Shri awardees from each of the past three years, along with the category in which they received the award.
- Select any one awardee and write a short biography including birth details, contributions, achievements, and why they received the award.

2. As Bright as the Sun

Instructions:

- **Create 5 personifications** of your own.
  - Use it in a **meaningful sentence**.
- **Create 5 original similes**.
  - Use each in a **sentence** that reflects creativity and proper usage.

3. Newsroom Assignment: Current Affairs Reporting Task

You are appointed as a **junior reporter for a news agency**.

Task Instructions:

- Choose **any one real-life issue or event** from the following areas:
  - Environment (pollution, floods, climate change, etc.)
  - Sports (matches, tournaments, achievements)
  - Society (education, health, safety, public awareness)
  - Science & Technology (new inventions, discoveries)
  - Local or national happenings (any recent event of importance)
- Identify **one major incident or development** related to your chosen topic.
- Collect or create a **suitable image/illustration** of the event.
- Write a **professional news report** based on the selected incident.

3.

Instructions:

- Solve the comprehension below.

Reading Passage

Read the extract and answer the questions that follow.

Colleagues Conspire Against the Author

I had several men who died in my ship of calentures. As a result I was forced to get recruits out of Barbadoes and the Leeward Islands. In Barbadoes and Leeward Islands, I could touch things only by the direction of the merchants who had employed me. I had fifty hands onboard. The orders given to me were that I should trade with the Indians in the south-sea and discover all the possibilities. These rogues, whom I had picked up, debauched my other men. They all formed a conspiracy to seize the ship and secure me. One morning they seized the ship. They rushed into my cabin and bound me hand and foot, threatening to throw me overboard, if I offered to stir. I told them, ―I was their prisoner, and would submit.‖ Hearing this they unbound me. They only fastened one of my legs with a chain, near my bed. They placed a sentry at my door with his piece charged. He was commanded to shoot me dead if I attempted my liberty. They sent me own victuals and drink and took the government of the ship to themselves. Their design was to turn pirates and plunder the Spaniards. They first resolved to sell the goods on the ship and then go to Madagascar for recruits.

Answer the questions.

1. Why was the author forced to recruit men from Barbadoes and the Leeward Islands?

   A. He needed experts in navigation

   B. His original crew had deserted

   C. Several men had died of calentures

   D. The merchants demanded it

2. Who directed the author's actions in Barbadoes and the Leeward Islands?

   A. The government

   B. The pirates

   C. The merchants who employed him

   D. The ship's captain

3. What were the author's original orders?

   A. To join the pirates in Madagascar

   B. To explore the Arctic region

   C. To trade with the Indians and explore the South Sea

   D. To fight against the Spaniards

4. What did the new recruits do to the other men on the ship?

A. Helped them become better sailors

B. Debauched them and involved them in a conspiracy

C. Trained them to fight

D. Locked them in the lower deck

5. What threat did the mutineers make after seizing the ship?

A. To abandon the ship

B. To sail to Spain

C. To throw the author overboard if he resisted

D. To destroy all the goods

6. How did the author respond to the mutiny?

A. He tried to escape

B. He shouted for help

C. He submitted and accepted being a prisoner

D. He fought with the mutineers

7. What was the ultimate plan of the mutineers?

A. To return to Barbadoes

B. To become merchants

C. To become pirates and plunder Spaniards

D. To free the author later

8. Do you think the author's decision to submit without resistance was wise? Justify your answer with evidence from the passage and your own reasoning.

HINDI

नोट:- गर्मी की छुट्टियों का कार्य सुन्दर लिखाई में हिन्दी कॉपी में करें।

1. राजस्थान के कुछ प्रमुख कुटीर उद्योगों की वर्तमान में दयनीय दशा को देखते हुए उन्हें पुनः रोज़गार का माध्यम बनाने की पहल करने के लिए क्या- क्या कदम उठाने चाहिए पाँच पंक्तियों में लिखते हुए किसी एक हस्त निर्मित वस्तु का निर्माण करें ।

2. भारत के मानचित्र में गंगा के उद्गम स्थल से चलते हुए उसके अंतिम पड़ाव तक की यात्रा में आने वाले महत्वपूर्ण स्थलों को और सहायक नदियों को चिह्नित करते हुए 80-100 में यात्रावृत्तांत तैयार कीजिए।

3. कुछ वर्ष पहले तक चिट्ठियों का बहुत अधिक महत्व था, परंतु संचार के विभिन्न नए माध्यमों के आ जाने से चिट्ठियों का अब उतना महत्व नहीं रहा। अपनी कल्पना के आधार पर लिखिए कि चिट्ठियों का इतना महत्व क्यों है यह हमारे लिए किस प्रकार से स्मृतियाँ इकट्ठा करने में सहायक है? 60 से 80 शब्दों में अपने विचार लिखिए।

MATHEMATICS

- PART A is the project.
- PART B is the revision sheet, which is recapitulation of the work which has been done so far.
- Do the revision worksheet on a separate thin notebook.
- Attempt all the questions neatly and in serial order.

PART A

Project

Project Title: —Mathematics in Real Life – My Budget Vacation‖

Instructions

1. Choose a Destination:

Pick any city or country you would like to visit.

2. Budget Allocation (Assume a Budget of ₹50,000):

Break down the budget under these heads:

Travel (flights/train/bus/car)

Accommodation (hotel/guest house)

Food

Sightseeing

Shopping

Miscellaneous

2. Draw a bar graph of budget distribution in your holiday homework notebook.

Part B

1) Solve the following equations and check the solutions

a) $5 - 3(5x + 2) = 4(7 - 3x) + 1$

b) $\frac{6x+1}{3} + 1 = \frac{x-3}{6}$

c) $\frac{x+1}{2x+3} = \frac{3}{8}$

d) $0.3(6 - x) = 0.4(x + 8)$

2) Sum of two rational numbers is $\frac{-5}{6}$. One of them is $\frac{-2}{3}$. Find the other rational number.

3) Write four rational numbers between $\frac{-1}{2}$ and $\frac{-2}{3}$.

4) Simplify $(\frac{-3}{5} \times \frac{10}{-7})$ - $(\frac{6}{-7} \times \frac{5}{6})$

5) Evaluate $9\frac{1}{2} - \{\frac{2}{3}$ of $\frac{3}{4} + (14 \div 1\frac{3}{4})\}$

6) Use the distributed property of multiplication of rational numbers over addition or subtraction to solve the following. (a) $\frac{1}{7} \times [\frac{1}{5} - \frac{6}{5}]$ (b) $\frac{2}{5} \times [\frac{1}{7} + \frac{2}{9}]$

7) Verify associative property of addition of rational numbers for a= $\frac{1}{7}$, b= $\frac{6}{5}$ and c= $\frac{3}{5}$

8) The additive inverse of x is same as the multiplicative inverse of $\frac{5}{9}$, find the value of x.

9) Tell which of the following is a linear equation in one variable:

a) $x^2 - 4x + 3 = 0$

b) $6x - 2y = 7$

c) $3x - 1 = -2x$

d) $pq - 3 = p$

10) Two supplementary angles differ by 500 . Find measure of each angle.

11) Twice the sum of two numbers is 36. If one of the numbers is 10, find the other number.

12) Given below is a magic square. Place the numbers $\frac{70}{95}, \frac{-21}{-133}, \frac{25}{95}, \frac{24}{38}$ in the appropriate squares so that sum in each row, column and diagonal is equal.

$\frac{32}{38}$	$\frac{18}{38}$	$\frac{4}{38}$	$\frac{-14}{-38}$
$\frac{-18}{-57}$	?	?	$\frac{104}{152}$
$\frac{22}{38}$	?	?	$\frac{-20}{-95}$
$\frac{1}{19}$	$\frac{-16}{-38}$	$\frac{45}{57}$	$\frac{60}{114}$

13) Solve the given crossword filling up the given boxes. Clues are given below for across as well as downward filling. Also, for across and down clues, clue number is written at the corner of the boxes. Answers of clues have to be filled in their respective boxes.

Down 1: 2 /3 and -5/ 4 are _____numbers.

Down 2: The _____inverse of a/ b is –a/ b .

Down 3: The addition and multiplication of whole number integers and rational numbers is _____.

Down 4: Since 1 /0 doesn't exist hence 0 has no _____.

Down 5: The number line extends _____on both the sides.

Down 6: The _____of two integers may not lead to the formation of another integer.

Down 7: The multiplication of a number by its reciprocal gives_____.

Down 8: Rational numbers can be represented on a _____line.

Across 1: There are _____rational numbers between two integers.

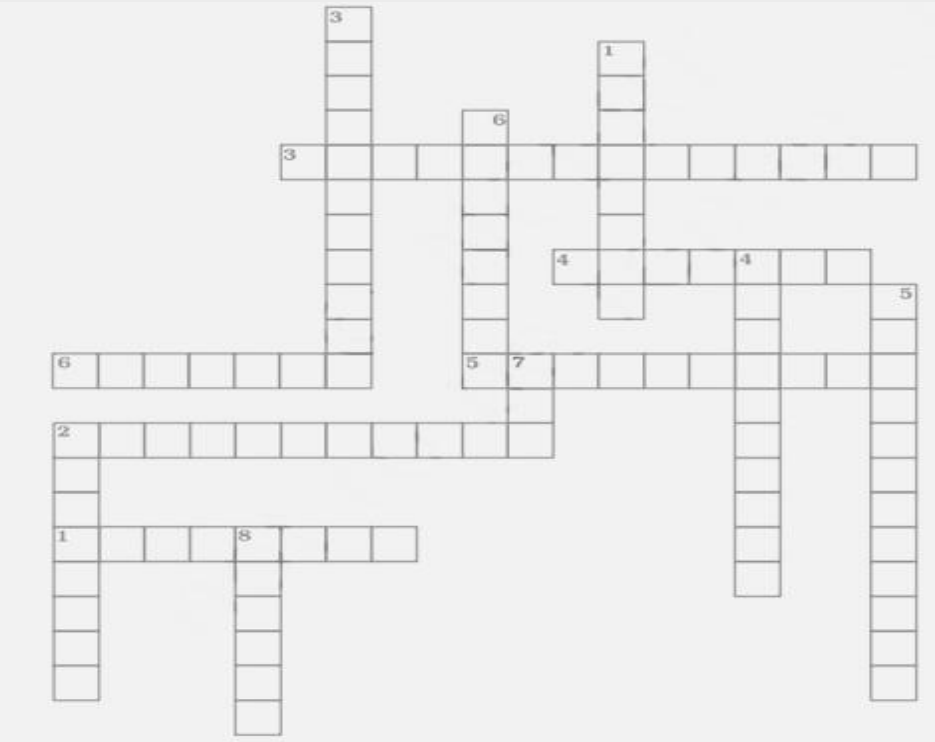
Across 2: The multiplication of rational numbers is commutative and _____.

Across 3: The addition and _____of two rational numbers lead to the formation of another rational number.

Across 4: All the positive integers excluding 0 are known as _____numbers.

Across 5: For any rational a ; a ÷ 0 is _____.

Across 6: Reciprocal is also known as the multiplicative _____.



Questions from NCERT EXEMPLAR book

Understanding quadrilateral

Question 138, 140,144,146,147,149,150,153,154,157,158,

161,163,164,165,167,168,170,172,184

SCIENCE

- PART A is the project.
- PART B is the revision sheet, which is recapitulation of the work which has been done so far.
- Attempt all the questions neatly and in serial order.

PART A

PROJECT WORK

1. Write a journal which highlights the knowledge, attitude and practice of food facts and myths among students related to the following: (ROLL NO 1 TO 10)

(i) dairy products are fattening and unhealthy
(ii) drinking milk is not good for health
(iii) gluten free foods are better for health and should be adopted by all
(iv) skipping meals is a key to weight loss
(v) eating after 6:00 PM leads to weight gain
(vi) effect of coffee on health
(vii) fibre intake is important for normal bowel function
(viii) coconut oil is healthier than olive oil

2. Do a research and write an article on the topic what happens in 24 hours after drinking an energy drink (ROLL NO 11 TO 20)
3. Do a research and write an article on intermittent fasting and human metabolic health (ROLL NO 21 TO 30)

PART B
WORKSHEET
PHYSICS

I. Multiple Choice questions:

(i) A boy is cycling along a road. When he applies the brakes, which one of the following forces occurs between the brake pads and the wheels.

(a) Gravity

(b) Magnetic

(c) Friction
(d) Stretching

(ii) When two forces act in opposite directions, then net force acting is the

(a) sum of two forces

(b) difference between two forces

(c) both of these

(d) none of these

For question numbers (iii) to (v), two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the options given below :

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

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

c) A is true but R is false.

d) A is false but R is true.

(iii) **Assertion (A):** Water begins to flow towards the ground as soon as we open a tap.

Reason (R): It is because of the force of gravity, which makes things/objects fall towards the earth as it pulls them.

(iv) **Assertion (A)**: The relationship between force, pressure, and area is given by P=F/A.

Reason (R): The SI unit of pressure is N/m^2 or Pascal (Pa).

(v) **Assertion (A)**: Fountains of water come out of the leaking joints or holes in pipes.

Reason(R): It is because liquids (water) exert pressure on the walls of the pipes.

II. Define these terms:

a) Barometer

b) Manometer

c) Unbalanced forces

III. Answer the following questions:

a) Why are iron rails of railway track fixed over wide wooden or concrete sleepers?

b) Explain why water comes out slowly from an upstairs' tap than from a similar tap downwards.

c) In a bullock-cart, each of the two bullocks pull with a force of 1500 N. Find the resultant force.

d) In a tug of war, Side A applies 15N force and side B applies 88N force. Which side will the rope move? What will be the net force acting on the rope?

e) Why is it difficult to pull out a toy having a rubber sucker, which is stuck to the wall?

f) If a force of 5N is applied over an area of 2.5 square metres.Calculate the pressure produced.

IV. PASSAGE BASED QUESTIONS:

Read the following passage and answer the questions:

In our daily life, we perform or observe activities such as opening or shutting a door, lifting or pushing a weight, squeezing a bottle of ketchup, cutting vegetables, and making different shapes with clay. All these activities require us to apply some kind of push or pull. A push or pull is also used to hit the striker in a game of carom, kick a football, catch a ball, etc., A push or pull that tends to affect an object in some way is called a force and a force arises only when two objects interact. Force has magnitude as well as direction. Force can make a stationary object move, change the shape, increase or decrease the speed of the object, change the direction or even bring a moving object to rest.

a) What is force?

b) How does an applied force changes the speed of an object?

c) In the following situations. State the effect of the force in each case.

(i) Squeezing a piece of lemon between the fingers to extract its juice.

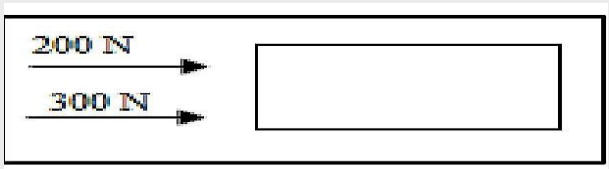
(ii) Taking out paste from a toothpaste tube.

(iii) A load suspended from a spring while its other end is on a hook fixed to a wall.

(iv) An athlete making a high jump to clear the bar at a certain height.

d) Two forces 200N and 300N are acting on a body in the same direction.

What is the resultant force?



e) Distinguish between the force of gravity and gravitational force.

V. APPLICATION BASED QUESTIONS:

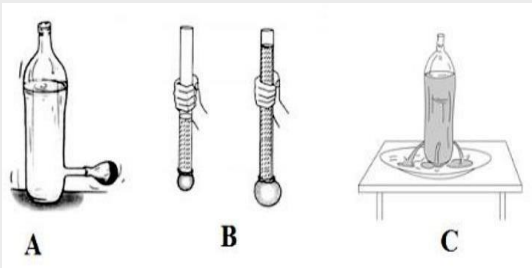
a) Imagine that friction suddenly vanishes. How would life be affected? List ten such situations.

b) It is easier to walk on sand if we have flat shoes rather than shoes with sharp edge heels. It is because- (identify correct one)

A. Flat shoes have more area so will exert less pressure

B. Flat shoes have more area so will exert more pressure

c) What do we observe from the following activities A,B and C?



CHEMISTRY

WORKSHEET

I. Very Short Answer Type Questions

1. Why petroleum is called black gold?

2. What does CNG stand for and why is it considered to be a better fuel than petrol?

3. Groundwater is an exhaustible natural resource. Comment on the statement.

4. Name the different varieties of coal.

5. Name the petroleum product used as fuel for stoves, lamps and jet aircrafts.

II. ASSERTION REASON BASED QUESTIONS:

For question numbers 6 to 7, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below:

i) Both A and R are true and R is the correct explanation of the assertion.
ii) Both A and R are true but R is not the correct explanation of the assertion
iii) A is true but R is false.
iv) A is false but R is true.

6. **Assertion(A) :** Coal and petroleum are called fossil fuels.

   Reason(R): Fossil fuels are formed from the remains of dead organisms after millions of years.

7. **Assertion (A):** Sunlight and air are inexhaustible resources.

   Reason(R): These resources are present in unlimited quantities in nature and are not likely to be exhausted by human activities.

III. SHORT ANSWER TYPE QUESTIONS :

8. While driving what are the tips we must follow to save petrol/ diesel/natural gas?

9. State some harmful effects of using fossil fuels?

10. We read in newspapers that burning of fuels is a major cause of global warming. Explain why.

11. Find out and mark the locations of major thermal power plants in an outline map of India. Research the reasons for their being locate at those places.

BIOLOGY

WORKSHEET

A. Multiple Choice Questions

1. Which of the following is a renewable source of energy?
   a) Coal b) Petrol c) Solar energy d) Diesel

2. Which disease is caused by a virus?
   a) Tuberculosis b) Typhoid c) Influenza d) Cholera

3. Which method is commonly used for preserving fruits like jams and jellies?
a) Freezing b) Boiling c) Salting d) Using sugar

4. Which of the following is a biofertilizer?
a) Yeast b) Rhizobium c) Penicillin d) Amoeba

5. Which agricultural practice involves loosening of soil?
a) Harvesting b) Irrigation c) Tilling d) Sowing

B. Assertion and Reasoning

Direction: For each question, choose the correct option:
A. Both A and R are true, and R is the correct explanation of A.
B. Both A and R are true, but R is not the correct explanation of A.
C. A is true, but R is false.
D. A is false, but R is true.

6. Assertion (A): Vaccines provide lifelong immunity against certain diseases.
Reason (R): Vaccines contain weakened or dead microbes that stimulate the immune system.

7. Assertion (A): Farmers use nitrogen-fixing bacteria in their fields.
Reason (R): These bacteria help convert nitrogen gas from the air into a usable form for plants.

8. Assertion (A): Excess use of fertilizers improves long-term soil fertility.
Reason (R): Fertilizers replenish organic matter in the soil.

C. Short Answer Questions

9. What are pathogens? Give two examples.

10. Why is it important to clean and store grains properly after harvesting?

11. How are microorganisms helpful in cleaning the environment?

D. Short Answer Questions

12. Explain any three methods of food preservation.

13. Differentiate between manures and fertilizers. (Any three points)

14. How is traditional irrigation different from modern irrigation? Mention one example of each.

E. Knowledge Application

15. Case Study:

A farmer named Ramu in Punjab noticed that his crops are showing poor yield despite using large amounts of chemical fertilizers. A local agricultural officer advised him to try organic methods and use nitrogen-fixing biofertilizers instead. He also suggested adopting crop rotation and mixed farming.

(a) Why might the use of chemical fertilizers reduce soil fertility in the long run?

(b) How can biofertilizers help improve crop yield?

(c) Explain how crop rotation and mixed farming help in sustainable agriculture.
OR
Explain any two traditional methods of irrigation.

(d) List any two harmful effects of excessive use of chemical fertilizers and pesticides.

(e) Suggest one way Ramu can protect his crops from microbial diseases.

Application Based questions:
16. Describe the roles of microorganisms in (i) food industry, (ii) medicine, and (iii) agriculture. Support your answer with examples.

INSTRUCTIONS:

Page 1	**Name, Class & Section, Topic**
Page 2	**Acknowledgement**
Page 3	**Content of Project (Pg-3 to Pg. 6)**
Page 7	**Bibliography**

✔Use loose sheets, one side plain and the other side ruled.
✔Paste the related pictures or draw the diagrams wherever necessary.
✔Give proper heading with relevant points.
✔Use a hard cover file with tags and cover it properly.
✔DO NOT use a plastic report/stick file.

SST

Social Science teaches us about the world we live in—its people, systems, and values. This holiday work is the effort to think critically and express these ideas innovatively. It allows students to learn beyond textbooks, connect with Sustainable Development Goals (SDGs), and present ideas that promote a better future.

Important Guidelines:

- Attempt **any one question out of Question 1 and Question 2**.
- Use waste or recycled materials for the poster.

  (Examples: cardboard, bottle caps, old magazines, cloth scraps, etc.)
- Email your presentation to the correct address based on your section:

  pizone@prabhatacademy.net

1. **Build a Sustainable City (Poster/Powerpoint Presentation)**

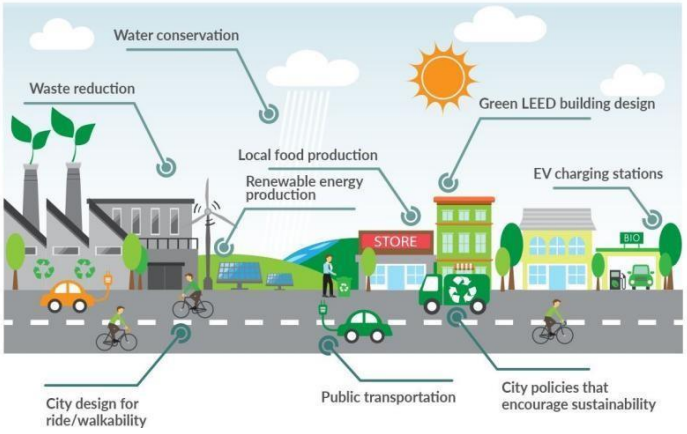
Task: Design a poster or model of an eco-friendly city with renewable energy, green spaces, smart infrastructure ,water waste management and efficient transport. Label features and explain the choices.

This project aligns with Sustainable Development Goals (SDGs), especially:

SDG 11: Sustainable Cities and Communities

SDG 7: Affordable and Clean Energy

SDG 13: Climate Action
SDG 9: Industry, Innovation and Infrastructure



Skills: Environmental understanding, creativity, planning.

2. **—Create your own country‖ - Poster Making**

Imagine you are forming your own country ! Give your country a name and a flag (design it) .Write a preamble with 5-6 lines describing the values of your country .

Project Requirements:Country Basics:

- Name of your country
- Flag design and meaning
- Motto and national symbols (animal, flower, etc.)
- Location: Where in the world is it? (You can place it on a real or imaginary continent.)

This project aligns with Sustainable Development Goals (SDGs), especially:

SDG 4 – Quality Education

SDG 5 – Gender Equality

SDG 7 – Affordable & Clean Energy

SDG 13 – Climate Action

SDG 16 – Peace, Justice & Strong Institutions

Reference Links :- https://englishteaching101.com/create-your-own-country-project/amp/

…….

General Instructions

- Write all answers neatly in a separate notebook/project file.
- Use proper headings, subheadings, and bullet points.
- Answer should be in your own words (no direct copying).
- Draw labelled diagrams wherever required.
- Add relevant pictures/maps to make work attractive.
- Submit the assignment after summer vacation.

General Knowledge (GK)

Q.1

"The Constitution of India is the backbone of democracy." Explain this statement in 8–10 lines. Also mention any four Fundamental Rights.

Q.2

Prepare a short project on "United Nations Organization (UNO)". Include:

- Objectives
- Major organs
- Any four specialized agencies
- Importance in the modern world

Q.3

India is a land of diversity. Explain this statement with reference to:

- Languages
- Culture
- Festivals
- Food habits

Q.4

Write a detailed note on “Climate Change and Its Effects on Earth”. Also suggest any four ways to reduce it.

Q.5

Name and describe any five important scientific discoveries or inventions that changed human life.

Computer

Q.1

Explain the evolution of computers from first generation to fifth generation with examples and features of each.

Q.2

Draw and explain the block diagram of a computer system. Describe the function of:

- Input Unit
- CPU (ALU & CU)
- Memory Unit
- Output Unit

Q.3

Write short notes on:

- Artificial Intelligence (AI)
- Machine Learning
- Cyber Security and its importance

Q.4

What is Internet? Explain its advantages and disadvantages. Also write five safety rules to follow while using the internet.

Q.5

Explain MS Excel in detail. Write its features and uses in:

- Education
- Business
- Data analysis

Also mention any four basic formulas used in Excel.

Q.6 (Creative Task)

Design a project on “Future of Technology”. Include:

- Robots in daily life
- Smart homes
- AI assistants
- Space technology

(Add pictures and write your own imagination-based ideas)