



DEEP PUBLIC SCHOOL

Your Child's future is Our Priority !!

SUMMER BREAK ASSIGNMENT (2025-26)

CLASS -9TH

SUBJECT: MATHEMATICS

General Instructions:

1. Do Holiday HW in Classwork copy (give heading SUMMER VACATION HW), no need to make separate copy.
 2. Complete C.W. & H.W. studied
 3. Students are directed to read Newspapers and Magazines daily and update themselves with the current affairs.
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Q.1) Conduct a survey of your friends to find which kind of Game (indoor/outdoor) they like the most. Represent the information in the form of

- (i) Bar graph
- (ii) Pie chart

Q.2) Write and learn all formulas of chapter – Number system and Polynomials.

Q.3) Project work: (use A4 pages)

- (i) Make a project on history of Number π (pie).

- (ii) Bring articles, amazing facts, riddles, recent discoveries in the field of Mathematics.
(any 3)

Worksheet

Ch-2 Polynomial

- 1) Find the Values of a and b so that the polynomial x^3+10x^2+ax+b is exactly divisible by $(x - 1)$ and $(x-2)$
- 2) Factorize : $(a^2-b^2)^3+(b^2-c^2)^3+(c^2-a^2)^3$
- 3) Simplify: $(a^2-b^2)^3+(b^2-c^2)^3+(c^2-a^2)^3 / (a-b)^3+(b-c)^3+(c-a)^3$
- 4) Factorize: i) $2a^2+2\sqrt{6}ab+3b^2$
ii) $5\sqrt{5}x^2+20x+3\sqrt{5}$
- 5) If $a+b+c=6$ and $ab+bc+ca=11$, find the value of $a^3+b^3+c^3-3abc$
- 6) If $x^4+1/x^4=119$, find the value if x^3-1/x^3
- 7) If $x-1/x=3+2\sqrt{2}$, find the value of x^3-1/x^3 .
- 8) MCQs
 - i) $(399)^2$ is equal to
 - a)159159
 - b)159202
 - c)156734
 - d)159201
 - ii) If $x=\sqrt[3]{2+\sqrt{3}}$, then $x^3+1/x^3=$
 - a)2
 - b)4
 - c)8
 - d)9

SUBJECT:SUBJECT

PHYSICS :

Instructions –

1. Do the question no. 8 separately as project work.

2. Rest of the questions can be done on the class notebook.
3. Keep your work neat and organized.
4. Use a ruler for drawing graphs or diagrams.
5. Show all your calculations step by step.
6. Use appropriate units for measurements.

Q1 - Define uniform and non uniform motion with an example.

Q2 - Differentiate (i) distance and displacement (ii) speed and velocity

Q3. Define acceleration and write its SI unit.

Q4 . Define average speed and uniform speed.

Q5. When are the distance and magnitude of displacement equal?

Q6. A cyclist completes n rounds of a circular track. What will be the distance covered and the displacement of the cyclist after completing n rounds if D is the diameter of the track ?

Q7. A truck driver slows down the truck from 66 km/h to 30km/h in 10 seconds. Find the retardation.

Q8 – Make a project on different types of graphs.

Draw the following in the project

- (i) distance-time graphs for uniform and non uniform motion.
- (ii) Velocity -time graph for uniform velocity or uniform motion
- (iii) Velocity –time graph for uniform acceleration
- (iv) Velocity – time graph for non uniformly accelerated motion
- (v) Aryan and his sister Sushma go to school on their bicycles. Both of them start at the same time from their home but take different times to reach the school although they follow the same route. Following Table shows the distance travelled by them in different times. Plot the distance-time graph for their motions on the same scale and interpret.

Time	Distance travelled by Aryan	Distance travelled by sushma
08:00 A.M.	0	0
08:05 A.M.	1.0	0.8
08:10 A.M.	1.9	1.6
08:15 A.M.	2.8	2.3
08:20 A.M.	3.6	3.0
08:25 A.M.	-	3.6

Q9 - 8 A bus starting from rest moves with uniform acceleration of 0.1m/s^2 for 2 minutes .Find (i) the speed acquired (ii)the distance travelled.

Q10 - A car has a uniform acceleration of 4 m/s^2 . What distance will it cover in 10 sec after start.

Q11 – (i) Convert 80 km/hour into m/sec

(ii) Convert 10 m/sec into km/hour

Q12 - A car accelerates uniformly from 18 km/h to 36 km/h in 5 seconds. Calculate (i) acceleration and (ii) the distance covered by the car in that time.

Q13 – A train starting from rest attains a velocity of 72 km/h in 5 minutes. Assuming that the acceleration is uniform, find (i) the acceleration and (ii) the distance travelled by the train for attaining this velocity.

Q14 - A car is moving at a speed of 50 km/h . Two seconds thereafter it is moving at 60 km/h . Calculate the acceleration of the car.

Q15 - A toy is accidentally dropped by a kid from his roof. The final velocity of the toy before it reached the ground was 8 m/sec . Find the height of the building.

BIOLOGY:

- Students will prepare a separate notebook for Biology subject for completing the holiday homework.
- Learn the syllabus of P T1.
- Students are expected to Complete their practical record as well portfolio record during the summer vacation.
- Prepare a well labelled 3-D model of either a plant cell or an animal cell .
- Make a project on the topic “Modern agricultural techniques enhancing crop yield and sustainability”

OR

On the topic “ The impact of fertilizer on plant growth”

- Complete the assignment:-

Q-What are the different types of endoplasmic reticulum? Write the functions of each .

Q-Name the cell organelle in which the following structures are present

a) Cristae

- b) Stroma
- c) Centriole
- d) Chromosome

Q-Why lysosomes are called as the “ suicidal bags “?

Q-If cells of onion peel and RBC are separately kept in hypotonic solution, what among the following will take place? Explain the reason for your answer.

- A) Both the cells will swell
- b) RBC will burst easily while cells of onion peel will not burst.
- c)RBC and onion peel cells behave similarly.

Q-Which kind of plastid is more commonly seen in-

- a) Roots of plant
- b) Leaves of plant
- c) Flowers and fruits

CHEMISTRY:

- 1) Make a poster on A4 size sheet on Interconversion of states of matter.
- 2) Lakshadweep, Andaman and Nicobar Islands are exotic and beautiful locations, providing perfect inspiration for chemists. Write a short article about the types of mineral resources found in Andaman & Nicobar and Lakshadweep islands on an A4 size coloured sheet and paste relevant pictures.

SUBJECT: ENGLISH

1. Attempt worksheet no.-17,18 and 19 in your NCERT workbook
2. Attempt Diary Entry worksheet on Page no.- 28 in your NCERT workbook
3. ‘Whenever you see darkness, there is extraordinary opportunity for the light to burn brighter’. Keeping this quote in mind make an account of a person who fought against physical disability and made life a success story.
4. Revise Periodic Test-1 Syllabus

SUBJECT: हिंदी

सूचना-दिया गया कार्य अपनी हिन्दी की नोटबुक में किजिए।

1. निम्नलिखित विषयों पर पत्र लिखिए –

क) आपके मोहल्ले में मच्छरों के प्रकोप का वर्णन करते हुए उचित कार्यवाही के लिए स्वास्थ्य अधिकारी को पत्र लिखिए।

ख) समाज में बढ़ती हुई असुरक्षा के संबंध में अपने विचार प्रकट करते हुए किसी दैनिक पत्र के संपादक को पत्र लिखिए।

2. निम्नलिखित अनुच्छेद 100 शब्दों में –

क) वृक्षों का महत्व

ख) प्रदूषण एक समस्या

ग) विद्यालय का महत्व

घ) अनुशासन हमारे जीवन का प्राण

3. वाचन कौशल के लिए निम्नलिखित विषयों में से किसी एक विषय की तैयारी कीजिए। सभी विषयों पर अपने विचार लिखकर अवश्य बताएं।

क) विज्ञापन - उपभोक्तावादी संस्कृति

ख) भ्रमण या देशाटन के लाभ

ग) सच्चा मित्र

4. प्रथम इकाई परीक्षा सम्पूर्ण पाठ्यक्रम याद कीजिए।

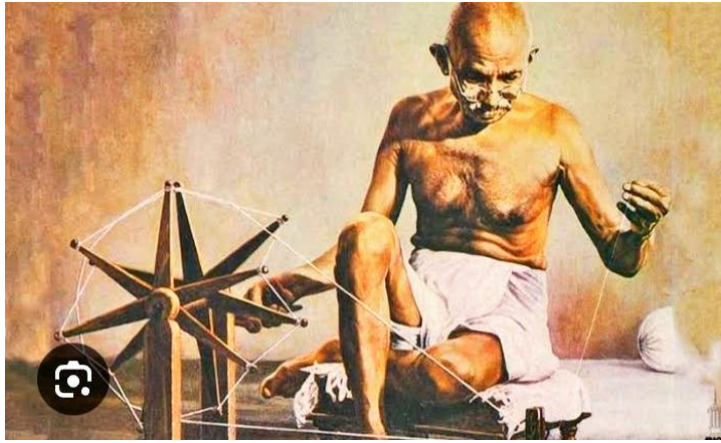
5. दिए गए चित्रों का वर्णन करते हुए कुछ पंक्तियाँ लिखिए।



क)



ख)



ग)

SUBJECT: INFORMATION TECHNOLOGY

PART-A

Unit 1- Communication Skills

◆ Objective Type / MCQs

1. What is communication?
2. Which of the following is a *barrier to communication*?
a) Active listening b) Noise c) Eye contact d) Feedback
3. Which type of communication uses gestures and facial expressions?
4. Which one is *not* a method of verbal communication?
5. Choose the correct example of **non-verbal communication**.
6. Which of these is an element of the communication cycle?
a) Sender b) Data c) Machine d) Computer
7. The process of interpreting the message is called:
8. Communication is a _____ process.
9. A message can be transmitted through:
a) Speech b) Writing c) Body language d) All of these

◆ Short Answer Questions (2–3 Marks)

1. Define communication.
2. List any two types of communication.
3. What are the elements of the communication process?

4. What is feedback in communication?
5. Name any two barriers to communication.
6. Mention two differences between verbal and non-verbal communication.
7. Define verbal communication with an example.
8. Define non-verbal communication with an example.
9. How can one overcome communication barriers?
10. What is the importance of listening skills?

◆ **Long Answer Questions (4–5 Marks)**

1. Explain the types of communication with suitable examples.
2. Describe the communication cycle with a diagram.
3. What are the main barriers to effective communication and how can they be overcome?
4. Discuss the importance of communication skills in everyday life.
5. Explain the difference between verbal, non-verbal, and visual communication with examples.
6. What are the characteristics of effective communication?
7. How does active listening help in communication?
8. Describe any 5 tips for effective communication.

Short Answer Questions (2–3 Marks)

1. Define self-management.
2. What are the benefits of self-management?
3. Name any two self-management skills.
4. What is self-confidence?
5. Define goal setting.
6. What is the importance of time management?
7. Mention any two ways to improve your self-motivation.
8. Write two characteristics of a self-confident person.
9. List any two time management tools.
10. Define self-awareness with an example.

◆ **Long Answer Questions (4–5 Marks)**

1. Explain any **five self-management skills** with examples.
2. Describe the **SMART goal setting** technique.
3. What are the **benefits of time management** in a student's life?
4. What is self-confidence? How can it be developed?
5. What is self-motivation? Suggest five tips to stay motivated.
6. Differentiate between **self-awareness and self-confidence**.
7. How can students improve their **time management skills**?
8. Discuss any five qualities of a self-managed person.

PART-B

Unit 1: Introduction to IT & ITeS Industry

◆ **Objective Type / MCQs**

1. What does IT stand for?
2. What is the full form of ITeS?

- LibreOffice Impress

Project Description:

🔗 **Part A: LibreOffice Writer**

- Create a document titled "**My Dream City**".
- Describe your dream city in about 300–400 words.
- Use the following formatting:
 - Heading: Font Size 16, Bold, Underlined
 - Paragraphs: Justified, 1.5 line spacing
 - Use **bullets or numbering** for listing facilities (schools, hospitals, transport, etc.)
 - Insert an image or shape representing your dream city

🔗 **Part B: LibreOffice Calc**

- Create a **budget plan** for your dream city.
- Include items like:
 - Roads
 - Schools
 - Hospitals
 - Water supply
 - Renewable energy
- Add **columns for Item, Estimated Cost, and Notes**
- Use formulas to calculate:
 - Total Budget
 - Average cost per item
- Apply **cell formatting** (borders, colors, bold headings)

🔗 **Part C: LibreOffice Impress**

- Make a **presentation (4–5 slides)** titled "Welcome to My Dream City"
 - Slide 1: Title Slide (with your name and project title)
 - Slide 2: Overview of your city
 - Slide 3: Key features (use bullet points and images)
 - Slide 4: Budget summary from Calc (insert a chart or table)

SUBJECT: SST

HISTORY/CIVICS:

MULTIPLE CHOICE QUESTIONS

1. The word 'Democracy' comes from the Greek word –
 (a) Democracia (b) Demokratia (c) Demos (d) Kratia
2. What kind of government is there in Myanmar?
 (a) Government elected by the people (b) Communist government
 (c) Army rule (d) Monarchy
3. The head of the government in Nepal is the:

- (a) President (b) Prime Minister (c) King (d) Vice President

4. Who led a military coup in Pakistan in 1999?

- (a) Benazir Bhutto (b) Nawaz Sharif (c) Pervez Musharraf (d) None of the above

5. In which case was the real power with external powers and not with the locally elected representatives?

- (a) India in Sri Lanka (b) US in Iraq
(c) USSR in Communist Poland (d) Both (b) and (c)

6. 'One person, one vote' means

- (a) One person is to be voted by all
(b) One person has one vote and each vote has one value
(c) A person can vote only once in his life
(d) Both (a) and (c)

7. How many members are elected to the National People's Congress from all over China?

- (a) 3050 (b) 3000 (c) 4000 (d) 2000

8. Why can the Chinese government not be called a democratic government even though elections are held there?

- (a) Army participates in election
(b) Government is not accountable to the people
(c) Some parts of China are not represented at all
(d) Government is always formed by the Communist Party

9. Which party always won elections in Mexico since its independence in 1930 until 2000?

- (a) Revolutionary Party (b) Mexican Revolutionary Party
(c) Institutional Revolutionary Party (d) Institutional Party

10. Democracy must be based on

- (a) One-party system (b) Free and fair election
(c) Choice from only the ruling party (d) All the above

11. When did Zimbabwe attain independence and from whom?

- (a) 1970, from Black minority rule (b) 1880, from White minority rule
(c) 1980, from Americans (d) 1980, from White minority rule

12. Which party has ruled Zimbabwe since its independence and who is its ruler?

- (a) ZANU-PF, Robert Mugabe (b) ZANU-PF, Kenneth Kaunda
(c) Zimbabwe Freedom Party, Nelson Mandela (d) Zimbabwe Party, P Johnson

13. Which of these features is/are necessary to provide the basic rights to the citizens?

- (a) Citizens should be free to think (b) should be free to form associations
(c) Should be free to raise protest (d) All the above

14. Which organ of the government is required to protect the rights of the citizens?
 (a) Executive (b) Legislature (c) Independent judiciary (d) Police
15. What is Constitutional Law?
 (a) Provisions given in the Constitution (b) Law to make Constitution
 (c) Law to set up Constituent Assembly (d) none of the above
16. Which of these is permitted under the Rule of Law?
 (a) Prime Minister can be punished for violating the Constitution
 (b) Police has a right to kill anybody
 (c) Women can be paid lesser salaries
 (d) President can rule for as long as he wants.
17. Some of the drawbacks of democracy is
 (a) Instability and delays (b) corruption and hypocrisy
 (c) Politicians fighting among themselves (d) all the above
18. In which of these cases can democracy not provides a complete solution?
 (a) Removing poverty completely (b) Providing education to all
 (c) Giving jobs to all (d) All the above
19. In which period did China face one of the worst famines that have occurred in the world?
 (a) 1932-36 (b) 1958-61 (c) 2001-2002 (d) 2004-2007
20. A democratic government is better than a non-democratic government because
 (a) It may or may not be accountable
 (b) It always responds to the needs of the people
 (c) It is a more accountable form of government
 (d) None of the above
21. Democracy improves the quality of decision-making because
 (a) Decisions are taken by educated people
 (b) Decisions are taken by consultation and discussion
 (c) Decisions are taken over a long period of time
 (d) All decisions are approved by judiciary
22. How does democracy allow us to correct its own mistakes?
 (a) Mistakes are hidden and cannot be corrected
 (b) Re-electing the same government to enable it to correct its mistakes
 (c) The rulers can be changed (d) none of the above
23. The most common form that democracy takes in our time is that of
 (a) Limited democracy (b) representative democracy
 (c) Maximum democracy (d) none of the above

Subjective questions-

- 24- Why did People of France hate Bastille?
25- What was Tithe and Taille?
26- Write few lines on Reign of Terror.
27- Describe the condition of Women during French Revolution.

28- Differentiate between Democratic and Non-democratic forms of government.
29- Define Universal Franchise
30- Are free and fair elections held in China.

SUGGESTIVE—1- WATCH “ONE NATION, ONE KING “(2018)- A FRENCH FILM THAT DEPICTS THE REVOLUTION IN PARIS FROM THE STORMING OF BASTILLE TO THE EXECUTION OF KING.
2- “A TALE OF TWO CITIES” (1935) A classic adaptation of Charles Dickens Novel, A glimpse into the lives of the people affected by the revolution.

Enjoy holidays but do your Holiday Home work

GEOGRAPHY:

Disaster Management

Objectives: The main objectives of giving project work on Disaster Management to the students are to:

1. Create awareness in them about different disasters, their consequences and management
2. Prepare them in advance to face such situations
3. Ensure their participation in disaster mitigation plans
4. Enable them to create awareness and preparedness among the community.

Prepare a project on any one of the following disaster:

- Earthquake
- Landslide
- Fire
- Industrial hazards
- Flood

The project must contain the following:

- Introduction
- Preparedness
- Do's and Don'ts
- Steps to mitigate the impact of disaster

ECONOMICS:

Part A: Competency-Based One-Mark Questions

(Tick the correct option)

1. Identify the main economic activity in the village of Palampur.
a) Manufacturing b) Farming c) Transport d) Fishing
2. What is meant by multiple cropping?
a) Growing one crop on a piece of land
b) Using more fertilizers
c) Growing more than one crop on the same land in a year
d) Growing crops and vegetables together
3. Which of the following is an example of working capital?
a) Tractors b) Pumpsets c) Fertilizers d) Land
4. Why do medium and large farmers have a higher income than small farmers?
a) They get government support
b) They produce only one crop
c) They use more labor
d) They have more land and capital
5. Which sector do non-farming activities in Palampur fall under?
a) Primary b) Secondary c) Tertiary d) Both b and c

Part B: Short Answer Questions

(Answer the following questions briefly)

- Q1. What are the main economic activities of the people of Palampur?
- Q2. Explain the role of modern farming methods in improving farm production.
- Q3. Why are small farmers at a disadvantage compared to large farmers?
- Q4. Name two non-farming activities in Palampur and explain any one.
- Q5. What are the factors of production used in farming in Palampur?

