DELHI PUBLIC SCHOOL GAYA

(Under the aegis of the Delhi Public School Society, New Delhi)

Affiliated to C.B.S.E, New Delhi Affiliation No.330530, School Code – 65572

DURGA PUJA HOLIDAY ASSIGNMENT CLASS-IX (ACADEMIC SESSION: 2025-26)

Are you looking for some interesting fun learning assignment to make your learning session interesting and engaging? Here in this assignment, you will find some very interesting and engaging tasks that will be fun solving.

ENGLISH LANGUAGE AND LITERATURE (184)

1. Creative Writing

Important Note:

The creative writing pieces from this section will be considered for the Inter-House Creative Writing Event scheduled for June. Your best work may represent your house in the competition!

General Instructions:

Originality is key: All submissions must be entirely your own work. Plagiarism will lead to disqualification and zero marks.

Presentation format:

1. Use A4 sheets only.
2. Write neatly in clear, legible handwriting.
3. Each page must include your name, class, and section.
4. Mention the word count at the end of every piece.

Creative Portfolio:

1. Design a hardcover folder titled "PORTFOLIO."
2. Begin with a self-introduction page (brief write-up about yourself).
3. File all your best language-based work from the holiday assignment inside this portfolio.
4. Arrange your A4 sheets neatly and creatively within it.

Evaluation Criteria: Originality, imagination, clarity of expression, language use, and overall presentation.

Let your words reflect your thoughts. Let your presentation reflect your passion. Your portfolio is your creative fingerprint—make it count!

CBSE Textbook: Beehive (Pre-reading)

1. My Childhood (A.P.J. Abdul Kalam)
2. A Truly Beautiful Mind (Albert Einstein)

Prose Task – Narrative Writing (300–350 words)

Title: "Dreams that Shape the Future"

Linked to: My Childhood

Write a personal or fictional story about how childhood experiences, values, or challenges shaped your dreams and character. Show how small beginnings can lead to great achievements.

Poetry Task (12 lines)

Theme: "The Power of Ideas"

Linked to: A Truly Beautiful Mind

Compose a poem on how creativity, imagination, or knowledge can change the world. Use metaphor, symbolism, or imagery to express your thoughts.

Extensive Reading (2 Hours)

Self-Reliance" by Ralph Waldo Emerson

Why: Emerson's essay encourages individuality and nonconformity. It's an inspiring call to trust your instincts and rely on your own judgment. The writing is dense but philosophical, and it offers timeless wisdom.

हिन्दी (085)

1. 'नवरात्रि में कन्या पूजन का महत्त्व' विषय पर लगभग 100 शब्दों में एक अनुच्छेद लिखिए।
2. दुर्गा–पूजा के उपलक्ष्य में बनाए गए बहुचर्चित 5–6 पंडालों का एक कोलाज़ तैयार कीजिए एवं प्रत्येक का संक्षिप्त विवरण लिखिए।
3. 'गीत–अगीत' कविता के आधार पर प्रकृति के साथ पशु–पक्षियों के संबंध की व्याख्या लगभग 70 से 80 शब्दों में कीजिए।
4. आपके बाल्यावस्था से जुड़ी किसी अविस्मरणीय घटना का वर्णन अपने माता–पिता या अभिभावक से पूछकर कीजिए।

संस्कृत (122)

1. प्रत्येक पाठ उदाहरण से प्रत्यय के दस–दस उदाहरण लिखिए।
2. सर्वदा, कदा, अपि, श्वः, अत्र उक्त अव्ययपदो के माध्यम से स्फोरकपत्र (चार्ट पेपर) पर एक–एक वाक्य रचना कीजिए।

MATHEMATICS (041)

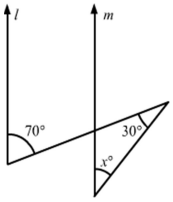
1. Simplify: $\left[\left\{(625)^{-\frac{1}{2}}\right\}^{-\frac{1}{4}}\right]^2$

   (a) 1 (b) 5
   (c) 25 (d) 125

2. If a > 0 and b < 0, then the image of (a, b) in y-axis lies in quadrant.

   (a) I (b) II
   (c) III (d) IV

3. In the given figure, if lines l and m are parallel lines, then x =



   (a) 70° (b) 100°
   (c) 40° (d) 30°

4. The value of $\frac{12\sqrt{32}}{4\sqrt{8}}$ is

(a) 6 (b) 3

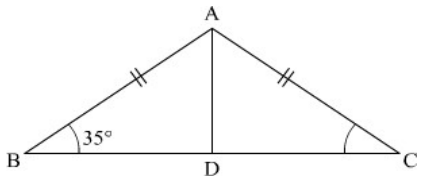
(c) 8 (d) 12

5. Find the area of a triangle whose sides are 9 cm, 12 cm and 15 cm.

(a) 50 cm^2 (b) 54 cm^2

(c) 56 cm^2 (d) 18 cm^2

6. ABC is an isosceles triangle such that AB = AC and AD ⊥ BC. Then, ∠BAD =



(a) 55° (b) 70°

(c) 35° (d) 110°

7. Two straight lines AB and CD cut each other at O. If ∠BOD = 63°, then ∠BOC =

(a) 63° (b) 117°

(c) 17° (d) 153°

8. In ΔABC and ΔPQR, ∠A = ∠Q, ∠B = ∠R and AB = QR, then these triangles are congruent by congruence criterion.

(a) SAS (b) ASA

(c) RHS (d) None of these

9. The image of the point (–3, –2) in x-axis lies in quadrant.

(a) I (b) II

(c) III (d) IV

10. 1.27272727….. can be expressed in the form p/q as

(a) 14/11 (b) 12/11

(c) 9/7 (d) none of these

11. If $\sqrt{2}$= 1.414 then $\sqrt{\frac{\sqrt{2}-1}{\sqrt{2}-1}}$ =?

(a) 0.207 (b) 2.414

(c) 0.414 (d) 0.621

12. In ΔABC, AB = BC and ∠B = 80°. Then ∠A = .

(a) 50° (b) 55°

(c) 65° (d) 70°

13. Abscissa of a point is positive in

(a) I and II quadrants (b) I and IV quadrants

(c) I quadrant only (d) II quadrant only

14. In ΔABC and ΔPQR, if ∠A = ∠Q, ∠B = ∠R and PR = AC, then two triangles are congruent by congruence criterion.

(a) SAS (b) ASA

(c) AAS (d) None of these

15. If the area of an equilateral triangle is $16\sqrt{3}$ cm^2, then its perimeter is

(a) 48 cm (b) 24 cm

(c) 12 cm (d) 36 cm

16. The edges of a triangular board are 6 cm, 8 cm and 10 cm long. The cost of painting it at the rate of 9 paise per cm2 is

(a) ₹ 2 (b) ₹ 2.16

(c) ₹ 2.48 (d) ₹ 3

17. If $(x - 1)^3 = 8$, What is the value of $(x + 1)^2$?

(a) 16 (b) 7

(c) 8 (d) 12

18. If ABC and DEF are two triangles such that ΔABC ≅ ΔFDE, AB = 5cm, ∠B = 40° and ∠A = 80°

(a) DF = 5cm, ∠F = 60° (b) DE = 5cm, ∠E = 60°

(c) DF = 5cm, ∠E = 60° (d) DE = 5cm, ∠D = 40°

19. Find the value of $\frac{5+\sqrt{3}}{5-\sqrt{3}} + \frac{5-\sqrt{3}}{5+\sqrt{3}}$

(a) 6 (b) 7

(c) 8 (d) 12

20. If $\frac{4+3\sqrt{5}}{4-3\sqrt{5}} = a + b\sqrt{5}$, then $ab =$

(a) 6 (b) 4

(c) 8 (d) 2

21. If $x = 3 + \sqrt{8}$ then $(x^2 + 1) =$?

(a) 34 (b) 56

(c) 28 (d) 63

22. On plotting the points O(0, 0), A(3, 0), B(3, 4), C(0, 4) and joining OA, AB, BC and CO which of the following figure is formed?

(a) Square (b) Rectangle

(c) Trapezium (d) Rhombus

23. Points (2, –2), (3, –3), (4, –5), (–3, –4)

(a) lie in II quadrant (b) lie in III quadrant

(c) lie in IV quadrant (d) do not lie in the same quadrant

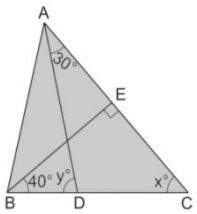
24. If x = 2α + 1 and y = α − 1 is a solution of the equation 2x − 3y + 5 = 0, find the value of α.

(a) 2 (b) –10

(c) –8 (d) 8

Case Study–1

25. Mohan has a triangle field ABC. He divided the whole field into two triangular fields ABD and ACD. After measuring he found that BC = AB, ∠EBC = 40º and ∠CAD = 30º. Again, he divided the whole field into two triangular fields ABE and CBE. His son is in Class IX. So, he assumed ∠ACD = xº and ∠ADB = yº. He prepared some questions based on his field and he asked his son to solve the questions:



Answer the following questions:

(a) Find the value of x.

(i) 50° (ii) 60°

(iii) 70° (iv) None of these

(b) Find the value of y.

(i) 90° (ii) 80°

(iii) 70° (iv) None of these

(c) Find ∠ADC.

(i) 90° (ii) 110°

(iii) 120° (iv) None of these

(d) Find ∠BAD.

(i) 30° (ii) 40°

(iii) 20° (iv) None of these

(e) Find ∠ABE.

(i) 30° (ii) 40°

(iii) 20° (iv) None of these

Case Study–2

26. On his birthday, Manoj planned that this time he celebrates his birthday in a small orphanage centre. He bought apples to give to children and adults working there. Manoj donated 2 apples to each children and 3 apples to each adult working there along with Birthday cake. He distributed 60 total apples.

Based on the above information, answer the following questions.

(a) How to represent the above situation in linear equations in two variables by taking the number of children as 'x' and the number of adults as 'y'?

(i) $2x + y = 60$ (ii) $2x + 3y = 60$

(iii) $3x + 2y = 60$ (iv) $3x + y = 60$

(b) If the number of children is 15, then find the number of adults?

(i) 10 (ii) 15

(iii) 25 (iv) 20

(c) If the number of adults is 12, then find the number of children?

(i) 12 (ii) 15

(iii) 14 (iv) 18

(d) Find the value of b, if $x = 5$, $y = 0$ is a solution of the equation $3x + 5y = b$.

(i) 12 (ii) 15

(iii) 14 (iv) 18

(e) Which is the standard form of linear equations in two variables: $y – x = 5$?

(i) $1.y – 1.x – 5 = 0$ (ii) $1.x – 1.y + 5 = 0$

(iii) $1.x + 0.y + 5 = 0$ (iv) $1.x – 1.y – 5 = 0$

SCIENCE (086)

PHYSICS

1. Why is it easier to push an empty box than a full box of the same size on the floor? Relate with inertia.
2. A bullet of mass 20 g moving with a velocity of 200 m/s is brought to rest in 0.01 s by a wooden block. Find: (i) the average force exerted on the bullet, (ii) the distance of penetration of the bullet into the block.
3. A particle's velocity–time graph is a triangle: from t = 0 to 4 s velocity rises linearly from 0 to 12 m/s, then drops to 0 at t = 10 s linearly. Find total displacement and average speed.
4. A car starts from rest with constant acceleration a, covers 60 m in first 4 s. Find a, then find time to cover next 120 m.
5. A 0.1 kg ball moving at 15 m/s is caught and brought to rest in 0.05 s by a glove. Calculate average force. Now if glove squeezes for 0.2 s instead, what is the average force?
6. A car accelerates uniformly from rest to 20 m/s in 10 s, then decelerates uniformly to rest in 5 s. Find total distance covered.
7. The mass of Earth is 6×10^{24} kg and the radius is 6.4×10^{6} m. Calculate the value of g using Newton's law of gravitation. $\left(G = 6.67 \times 10^{-11}\ \frac{Nm^2}{kg^2}\right)$
8. Two masses of 200 kg and 500 kg are separated by a distance of 0.5 m. Find the force of gravitation between them. $\left(G = 6.67 \times 10^{-11}\ \frac{Nm^2}{kg^2}\right)$
9. If the gravitational force of attraction between two bodies is zero, what can you say about the distance between them?
10. A ball thrown vertically upward reaches height H and falls back. If total time of flight is T, express the maximum height H in terms of T and g.

CHEMISTRY

General Instructions:

- *Revise the chapter 'Atoms and Molecules' thoroughly before attempting following questions.*
- *Attempt these questions in class-work notebook.*

Objective Type Questions (MCQs)

1. Which of the following is true about an atom?
   (a) It is divisible into protons, neutrons, and electrons.
   (b) It is indivisible.
   (c) It contains only protons and neutrons.
   (d) It consists only of electrons.
2. The atomic mass unit (amu) is defined as:
   (a) 1/16th the mass of an oxygen atom
   (b) 1/12th the mass of a carbon-12 atom
   (c) 1/14th the mass of a nitrogen atom
   (d) 1/10th the mass of a hydrogen atom

Fill in the Blanks

3. The smallest particle of an element that can exist independently and retain the chemical properties of the element is called a _____.
4. The molecular mass of a compound is the sum of the _____ masses of all the atoms present in the molecule.

Chemical Formula Making by Criss-Cross Method

5. Write the chemical formula of calcium oxide. (Use the criss-cross method.)
6. Write the chemical formula of aluminium sulphate. (Use the criss-cross method.)

Naming the Chemical Formula

7. Name the compound with the chemical formula Na_3PO_4.
8. Name the compound with the chemical formula $CuSO_4$.

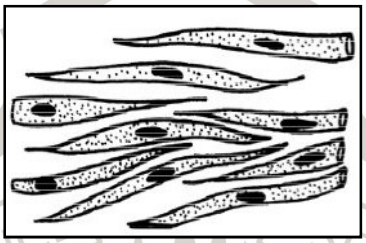
Calculation of Molecular and Formula Masses

9. Calculate the molecular mass of ammonia and carbon tetrachloride.
10. Calculate the molecular mass of sulphuric acid and aluminium sulphate.

BIOLOGY

1. Which of the following tissues is responsible for movement in our body?
   (a) Epithelial tissue (b) Connective tissue
   (c) Muscular tissue (d) Nervous tissue
2. Blood is a type of:
   (a) Muscular tissue (b) Epithelial tissue
   (c) Connective tissue (d) Nervous tissue
3. Which of the following is a voluntary muscle?
   (a) Smooth muscle (b) Cardiac muscle
   (c) Skeletal muscle (d) None of these
4. The tissue that connects muscles to bones is:
   (a) Ligament (b) Tendon
   (c) Cartilage (d) None of these
5. The tissue that connects muscles to bones is:
   (a) Ligament (b) Tendon
   (c) Cartilage (d) Adipose
6. Ciliated epithelium is found in:
   (a) Skin (b) Trachea
   (c) Liver (d) Kidney
7. Cardiac muscles are:
   (a) Involuntary and striated (b) Voluntary and striated
   (c) Involuntary and unstriated (d) Voluntary and unstriated
8. The matrix of bone is rich in:
   (a) Sugar and protein (b) Calcium and phosphorus
   (c) Fat and calcium (d) None of these

9. Assertion (A): Ligaments connect bones to bones.
   Reason (R): Ligaments are made of loose connective tissue.
   (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
10. Assertion (A): Cardiac muscles work throughout life without fatigue.
    Reason (R): Cardiac muscles are striated and have intercalated discs.
    (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
11. What is a tissue? Name the four types of animal tissues.
12. Find out the type of tissue. Where is it found?



13. Differentiate between striated and smooth muscles (any two differences).
14. Write any two functions of connective tissue.
15. What is the function of adipose tissue? Where is it found?
16. Why is blood considered a connective tissue?
17. Mention two characteristics of cardiac muscles.
18. What is the function of ciliated epithelium?
19. Define neuron. Name its main parts.
20. Differentiate between ligament and tendon.
21. Why is skeletal muscle called voluntary muscle?

SOCIAL SCIENCE (087)

Interdisciplinary Project:

Topic: Colonialism, Forest Society, Natural Vegetation and Wildlife

Project Question:

Forests have always been important for human life, but colonial policies and modern exploitation have changed their use and threatened biodiversity. With reference to India and Java, explain how colonialism affected forest societies and led to forest transformations. Also discuss the present challenges of protecting India's natural vegetation and wildlife. Suggest simple and practical ways to conserve forests and wildlife while meeting human needs.

Instructions for Students:

1. The project must be done on A4 sheets and arranged neatly in a transparent file.
2. Organise your work as follows:
   - Title Page (Name, Class, Roll No., Project Title)
   - Introduction

- Colonialism and Forest Society (India & Java)
- Natural Vegetation and Wildlife in India (types, threats)
- Conservation and Solutions (government steps + your own ideas)
- Conclusion
- Bibliography/source of information

3. Add maps, diagrams, pictures, posters, or cartoons to make the project attractive.
   Note: Students are encouraged to use their creativity (surveys, interviews, role-play ideas, visuals, posters, etc.) while preparing this project.

INFORMATION TECHNOLOGY (402)

Objective: Apply your knowledge of digital documentation to create a professional document.

Task: You are a content writer for a travel blog. Your next article is titled "Top 5 Travel Destinations for a Budget Vacation." Create this document using a word processor (LibreOffice Writer).

Requirements:

1. The document should be at least three pages long.
2. Use a professional-looking title and a relevant subtitle.
3. Apply a watermark with the text "Vacation Blog" to every page.
4. Include a header with your name and a footer with the page number.
5. Use a mix of text formatting (bold, italics, underline) to highlight important information.
6. Add at least three relevant images within the document. Use the "Wrap Text" feature to position them effectively.
7. Include a table that compares the estimated costs for two of the destinations.

Submission:

- Take printout of the screenshot of each page and submit all into a single stick file.
- Please find that you have to use Libre Office only clearly mentioning your Name, Class, Section and Roll No in the front page and submit it to the concerned IT teacher as soon as the school reopens.
- Keep a backup copy of the same with you.

INTRODUCTION TO FINANCIAL MARKETS (405)

1. Raj has ₹500. He can either buy a new school bag or save the money in a bank account. Explain how money helps him make a choice.
2. Earlier, people used the barter system. Imagine you are a farmer growing rice and you want clothes. Explain one problem you might face without money.
3. Riya wants to buy books online. Explain how digital money/UPI makes her transaction easier compared to cash.
4. Anil's father gets ₹30,000 per month as salary, while his mother runs a tailoring shop and earns ₹20,000. Identify the types of income for both and explain.
5. Sneha won ₹5,000 as prize money in a debate competition. Is this income regular or irregular? How should she plan to use it wisely?
6. Rohit receives ₹500 per month as pocket money and also earns ₹2,000 from tuition classes he gives to younger kids. Explain how earned income and allowance differ in his case.
7. Meera spends ₹800 on snacks, ₹500 on stationery, and saves ₹200 every month. Classify her spending into essential expenses and non-essential expenses.

8. Arjun has limited pocket money. He wants to buy a cricket bat, go to a movie, and also recharge his phone. How should he prioritize his expenses?
9. A family earns ₹25,000 monthly. They spend ₹12,000 on rent, ₹6,000 on food, ₹2,000 on electricity, and ₹3,000 on shopping. Identify fixed expenses and variable expenses.
10. Explain the stages of evolution of money.

PHYSICAL ACTIVITY TRAINERS (418)

1. Reflect on your own strengths and weaknesses. Write about two strengths you are proud of and two weaknesses you want to improve. How can positive thinking and self-confidence help you become a better student and person? Also, explain why maintaining personal hygiene is important in self-management.
2. Project 1: "My Daily Physical Activity Log"
3. Project 2: "Design a Physical Activity Plan for Kids"

ARTIFICIAL INTELLIGENCE (417)

1. A model is used to classify emails as spam or not spam. The confusion matrix is shown below:

	Predicted spam	**Predicted not spam**
Actual spam	40	10
Actual not spam	5	45

(a) How many emails were correctly classified?
(b) How many emails were wrongly classified?

2. In a medical test, a confusion matrix is:

	Predicted positive	**Predicted negative**
Actual positive	50	20
Actual negative	10	70

Find the number of true positives (tp), false negatives (fn), false positives (fp),
And true negatives (tn).

3. Out of 80 exam papers:
   - 40 were actually "pass," 40 were actually "fail."
   - The system predicted 35 pass correctly and 30 fail correctly.
   - The rest were wrong predictions.

   Draw the confusion matrix.

4. Out of 100 test cases, a model predicted:
   - 60 were correctly predicted as positive,
   - 25 were correctly predicted as negative,
   - 10 were wrongly predicted as positive,
   - 5 were wrongly predicted as negative.

   Draw the confusion matrix for this situation.

5. A model has the following confusion matrix:

	Predicted positive	**Predicted negative**
Actual positive	30	20
Actual negative	15	35

(a) How many total cases were tested?

(b) What is the number of false positives (FP)?

(c) What is the number of false negatives (FN)?

GERMAN (020)

Task-1:Paragraph Writing – Konjunktiv II

Topic: Wenn ich ein Superheld wäre...

Write a paragraph (8–10 sentences) imagining what you would do if you were a superhero. Use Konjunktiv II forms like wäre, hätte, würde + Infinitiv.

Task-2:Creative Activity – Comic Strip (Konjunktiv II)

Create a 4-panel comic strip titled:

"Wenn meine Familie Superkräfte hätte..."

Each character should speak using Konjunktiv II. Add drawings or stick figures.

Task-2:Grammar Table – Verb Forms

Choose any 5 verbs and fill out the table with these forms:

Verb Präteritum Perfekt Konjunktiv I Konjunktiv II

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