



D.A.V. NANDRAJ PUBLIC SCHOOL

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HOLIDAY HOMEWORK

SESSION 2026 – 27

CLASS: XI

ENGLISH

1. Part A. Interview your grandparents or any elderly person in your neighbourhood.

Ask them these questions:

What was school life like in their childhood?

What values were most important during their youth?

What changes do they see in today's generation?

What advice would they like to give students?

Prepare a video for the same to be submitted to the subject teacher.

Part B. Books are one of the best ways to share ideas, stories, knowledge, and imagination. In this project, students will learn how to plan, write, illustrate, and present their own mini book. This activity improves creativity, writing skills, vocabulary, organization, and confidence.

Write a mini book (upto 14 pages) which can be a storybook, poetry collection, comic book, biography, science facts book, adventure tale, or any topic chosen by the student.

Suggested Structure:

Cover page

Author's name

Introduction

Main chapters/pages

Conclusion

Moral or message

Back cover

IMPORTANT NOTE: Students must not copy it from anywhere. Their writing must be plagiarism free.

PHYSICS

Prepare a project file on the topic:

"Derivation of Equations of Motion by Graphical Method".

Submit the project file neatly with proper diagrams and explanation.

CHEMISTRY

Investigatory Project

Topic:

Detection of Adulteration in Food Items

Instructions:

Prepare a handwritten investigatory project file.

Include:

1. Aim of the project
2. Materials required
3. Procedure
4. Observation
5. Conclusion

Take any 2–3 common food items (milk, turmeric, tea, sugar, etc.) and perform simple adulteration tests.

Add diagrams/pictures wherever possible.

Keep the project neat and creative.

MATHEMATICS

1. Which of the following are well-defined sets?

- (a) All the colors in the rainbow.
- (b) All the points that lie on a straight line.
- (c) All the honest members in the family.
- (d) All the consonants of the English alphabet.
- (e) All the tall boys of the school.
- (f) All the efficient doctors of the hospital.
- g) All the hardworking teachers in a school.
- (h) All the prime numbers less than 100.
- (i) All the letters in the word GEOMETRY

2. Let $A = \{a, b, c, d, e, f\}$. Insert the appropriate symbol \in or \notin in the blank space.

- (a) d ___ A
- (b) y ___ A
- (c) m ___ A
- (d) a ___ A
- (e) e ___ A
- (f) x ___ A

3. Write the following sets in the set builder form.

- (a) $A = \{2, 4, 6, 8\}$
- (b) $B = \{3, 9, 27, 81\}$
- (c) $C = \{1, 4, 9, 16, 25\}$
- (d) $D = \{1, 3, 5, \dots\}$
- (e) $E = \{4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, \dots, 52\}$
- (f) $F = \{-10, \dots, -3, -2, -1, 0, 1, 2, \dots, 5\}$

(g) $G = \{O\}$

(h) $P = \{\}$

(i) $H = \{-5, 5\}$

(j) $Q = \{V, I, B, G, Y, O, R\}$

4. Write the following sets in the roster form.

(a) $A = \{x : x \in W, x \leq 5\}$

(b) $B = \{x : x \in I, -3 < x < 3\}$

(c) $C = \{x : x \text{ is divisible by } 12\}$

(d) $D = \{x : x = 3p, p \in W, p \leq 3\}$

(e) $E = \{x : x = a^2, a \in N, 3 < a < 7\}$

(f) $F = \{x : x = n/(n + 1), n \in N \text{ and } n \leq 4\}$

(g) $G = \{x : x \in N, 3x - 2 < 5\}$

(f) $F = \{x : x = n/(n + 1), n \in N \text{ and } n \leq 4\}$

(g) $G = \{x : x \in N, 3x - 2 < 5\}$

(h) $J = \{x : x \in N, x^2 < 16\}$

(i) $K = \{x : x \text{ is a prime number which is a divisor of } 42\}$

(j) $H = \{x : x \text{ is a 2-digit natural number such that the sum of its digits is } 5\}$

6. Classify the following as finite and infinite sets.

(a) The set of days in a week

(b) $A = \{x : x \in N, x > 1\}$

(c) $B = \{x : x \text{ is an even prime number}\}$

(d) $C = \{x : x \text{ is a multiple of } 5\}$

(e) $D = \{x : x \text{ is a factor of } 30\}$

(f) $P = \{x : x \in Z, x < -1\}$

(g) The set of all letters in the English alphabet.

7. From the sets given below, identify the equal sets.

$A = \{3, 5, 9, 11\}$ $Q = \{m, s, t\}$

$$B = \{8, 9, 1, 13\} \quad R = \{o, p, a, z\}$$

$$C = \{-3, 3\} \quad T = \{1, 8, 9, 13\}$$

$$D = \{s, t, m\} \quad M = \{3, -3\}$$

$$P = \{9, 3, 5, 11\}$$

9. Which of the following are equivalent sets?

(a) $A = \{1, 2, 3\}$ $B = \{4, 5\}$

(b) $P = \{q, s, m\}$ $Q = \{6, 9, 12\}$

(c) $X = \{x : x \text{ is a prime number less than } 10\}$ $Y = \{x : x \in \mathbb{N}, x \leq 4\}$

(d) $R = \{x : x = 2n + 3, n < 4, n \in \mathbb{N}\}$ $S = \{x : x = n/(n + 1), n \in \mathbb{R}, n \leq 4\}$

(e) The set of vowels in the English alphabet

(f) The set of consonants in the English alphabet

10. Find the cardinal number of the following sets.

(a) $A = \{x : x \in \mathbb{I}, 2 < x < 7\}$

(b) $B = \{x : n \in \mathbb{N}, x = n^2, n < 3\}$

(c) The set of months in a year

(d) $C = \{x : x \in \mathbb{Z}^+, x < 100\}$

(e) $D = \{x : x = n^3, n \in \mathbb{W}, n < 5\}$

(f) The set of letters in the word MALAYALAM

BIOLOGY

Prepare a project from the chapter "Biological Classification" by including any four examples from the different kingdoms along with their figures. Also, mention at least five characteristic features of each kingdom.

ACCOUNTANCY

Chapters: 1, 2 & 3

Chapter 1 – Introduction to Accounting

1. Define Accounting. Explain any four objectives of accounting.
2. Differentiate between Bookkeeping and Accounting.

3. Explain the following terms with one example each:

Assets, Liabilities, Capital, Revenue, Expenses

4. Why is accounting called the “language of business”?

5. State any five limitations of accounting.

6. Give two examples each of:

Fixed Assets, Current Assets, Capital Expenditure, Revenue Expenditure

7. Explain the accounting process in proper sequence.

8. “Accounting information should be reliable and relevant.” Explain.

9. Prepare a short note on:

Users of Accounting Information

Internal Users and External Users

Case Study Question:

10. Aman started a business with ₹5,00,000. He purchased furniture for ₹40,000 and goods for ₹1,20,000. He sold goods costing ₹30,000 for ₹45,000.

Identify:

A. Capital introduced

B. Asset purchased

C. Revenue earned

D. Profit earned

Chapter 2 – Theory Base of Accounting

11. Explain the following accounting concepts:

12. Business Entity Concept

13. Money Measurement Concept

14. Going Concern Concept

15. Dual Aspect Concept

16. What is Accounting Equation? Explain with example.

17. State the meaning of GAAP (Generally Accepted Accounting Principles).

18. Differentiate between:

a. Accounting Concepts and Conventions

b. Capital Receipts and Revenue Receipts

19. Explain any four accounting conventions.

20. Show the effect on Accounting Equation:

Started business with cash ₹2,00,000

Purchased goods for cash ₹50,000

Bought furniture on credit ₹20,000

Deposited cash into bank ₹40,000

21. Calculate Capital using Accounting Equation:

Assets = ₹8,50,000

Liabilities = ₹2,75,000

22. State whether the following are Capital or Revenue expenditure:

Wages paid for installation of machinery

Repair of office furniture

Purchase of building

Salary paid to employees

BUSINESS STUDIES

Business studies project to topics are given students are to do individually anyone of the two topic the first is business services and second is insurance

1. Digital Banking Revolution in India

Subtitle:

From Traditional Banking to UPI and Mobile Banking

Main Contents:

1. Introduction to Banking
2. Evolution of Banking in India
3. Types of Bank Accounts
4. Traditional Banking vs Digital Banking
5. ATM, Net Banking and Mobile Banking
6. UPI and Digital Payment Apps
7. Advantages and Disadvantages of E-Banking
8. Cyber Security and Online Fraud Protection
9. Government Initiatives for Digital India
10. Survey Report and Conclusion

2. Role of Insurance in Modern Life

Subtitle: Financial Protection for Families and Businesses

Main Contents:

1. Introduction to Insurance
2. Meaning and Importance of Insurance
3. Principles of Insurance
4. Types of Insurance
 - Life Insurance
 - Health Insurance
 - Vehicle Insurance
 - Property Insurance
5. Insurance Claim Process
6. Role of Insurance in Business and Society
7. Importance of Insurance after COVID-19
8. Government Insurance Schemes
9. Survey and Findings
10. Conclusion

ECONOMICS

Instructions:- Students are instructed to complete the holiday homework in a thin copy.

1. Define Production Possibility Curve.
2. What does scarcity mean in economics?
3. What is meant by opportunity cost?
4. State any two assumptions of PPC.
5. Explain the problem of “What to produce?” with the help of PPC.
6. Differentiate between:
 - i. Fuller utilization of resources
 - ii. Growth of resources
7. Draw neat and labeled diagrams for:
 - i. Concave PPC
 - ii. Rightward shift of PPC
 - iii. Point inside the PPC
 - iv. Point beyond PPCWrite 2–3 lines explaining each diagram.
8. Collect one newspaper article or internet image related to:
 - i. unemployment,
 - ii. economic growth, and
 - iii. scarcity of resources.Paste it and explain its relation with PPC in about 100 words.

HISTORY

Project Work

1. Prepare a project file based on the topic with reference to a chapter from NCERT book. It should be hand written only.
Chapter 1 – Writing and City Life (The Mesopotamian Civilization) – A great Civilization of the World.
2. Go through this chapter thoroughly and revise the given notes.
3. Answer the following questions:
 - a. Why Mesopotamia is considered important by Europeans?
 - b. “Rivers play a crucial role in the emergence of Civilization.” Justify this statement in context to Mesopotamia.
 - c. Briefly describe the sculpture, “The Warka Head”, found in the city Uruk.

GEOGRAPHY

(A) TOPIC : PHYSIOGRAPHIC DIVISION OF INDIA :-

Locate and Label the following GEOGRAPHICAL FEATURES of India on a chart paper.

1. Himalaya Mountains
2. Northern Plains
3. Peninsula Plateau (Central Highlands and Deccan Plateau)
4. Indian Desert
5. Coastal Plains
6. Island Groups
7. Indian Ocean

8. Bay of Bengal
9. Arabian Sea
10. Eastern Ghats
11. Western Ghats

MATERIALS NEEDED

1. Chart paper
2. NCERT textbook
3. Colored markers/pencils
4. Other reference sources

Tips

1. Use different colors for each feature.
2. Create a legend with symbols for each feature.
3. Ensure accurate labeling and placement.

(B) PRACTICAL WORK : complete practice work in your geography practical file.

Chapter - 1 :- INTRODUCTION TO MAP

POLITICAL SCIENCE

1. Paste the pictures of 10 Constitution makers and write about them.

2. Students will prepare project on the following topics:-

Roll No. 1 - 5 Constitution

Roll No 6-10 Election And Representation

Roll No.11-15 Parliament and Parliamentary Committees

Roll No. 16- 20 Prime Minister and council of Ministers

Roll No.21-25 Judiciary

Roll No.26-30 Federalism

Roll No.31 onwards Political Theory

Learn all the question and answer of the chapter Constitution: Why and How?

HINDI

परियोजना कार्य

भारतीय सिनेमा का इतिहास, शुरू के सिनेमा के उद्देश्य, मध्यकालीन सिनेमा और आधुनिक सिनेमा यानी भारतीय सिनेमा तब - अब और *आगे इस विषय पर एक परियोजना कार्य बनाएं, जिसमें शुरू मध्य और आज की स्थिति का वर्णन हो। यह भी दिखाएं कि कैसे भारतीय सभ्यता और संस्कृति को बिगाड़ने में सिनेमा की भूमिका रही। आज कैसे कुछ सिनेमा राष्ट्रीय भावनाओं से प्रेरित है जिसे हमें प्रमोट करना चाहिए। सीबीएसई बच्चों को इसके प्रति कैसे जागरूक कर रही है इसका भी वर्णन हो।

निर्देश

प्रायोगिक कापी में (फाइल लें, कलर या डिजाइन पेज लें। फोटो बायीं ओर लगाएं और दाहिने पेज पर लिखें। लिखावट, साफ, स्पष्ट हो। गलतियां कम से कम हो। पहले रफ करें)

1. मुख्य पेज पर स्कूल का नाम, परियोजना विषय का नाम, सत्र, छात्र का नाम, वर्ग, क्रमांक - स्कूल का, बोर्ड क्रमांक खाली रहने दें। इत्यादि साफ - सुथरे अक्षरों में लिखें।

2. प्रमाण पत्र
3. आभार ज्ञापन
4. विषय सूची
5. भूमिका
6. विषय स्पष्टीकरण -
7. अध्ययन का परिणाम
8. संदर्भ ग्रंथ

लगभग 18 से 20 पेज में आकर्षक ढंग से वर्णन हो ।
डीजाइन पेपर भी प्रयोग में ला सकते हैं।

SANSKRIT

परियोजना कार्य

विषय - रामायण

कार्य के बिंदु:

1. रामायण का संक्षिप्त परिचय लिखें।
2. रामायण के सात काण्डों के नाम लिखकर उनका संक्षिप्त वर्णन करें।
3. रामायण के मुख्य पात्रों का परिचय लिखें –

राम,

सीता,

लक्ष्मण,

हनुमान।

4. रामायण से मिलने वाली तीन शिक्षाएँ लिखें।
5. रामायण से कोई एक श्लोक लिखकर उसका हिन्दी अर्थ लिखें।
6. परियोजना में चित्र (राम, सीता, हनुमान आदि) भी लगाएँ।

विशेष निर्देश:

प्रायोगिक कापी में (फाइल लें, कलर या डिजाइन पेज लें। फोटो बायीं ओर लगाएं और दाहिने पेज पर लिखें । लिखावट ,साफ , स्पष्ट हो । गलतियां कम से कम हो ।पहले रफ करें)

1. मुख्य पेज पर स्कूल का नाम , परियोजना विषय का नाम ,सत्र, छात्र का नाम,वर्ग, क्रमांक - स्कूल का , बोर्ड क्रमांक खाली रहने दें ।इत्यादि साफ - सुथरे अक्षरों में लिखें ।

2. प्रमाण पत्र

3. आभार ज्ञापन
4. विषय सूची
5. भूमिका
6. विषय स्पष्टीकरण -
7. अध्ययन का परिणाम
8. संदर्भ ग्रंथ

लगभग 18 से 20 पेज में आकर्षक ढंग से वर्णन हो ।

डीजाइन पेपर भी प्रयोग में ला सकते हैं।

COMPUTER SCIENCE

Unit 1: Computer Systems and Organisation

Write a short notes on the following Topics:

- Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB)
- Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software
- Operating System(OS): functions of the operating system, OS user interface

[Notes :- Complete this work in your computer science notebook]

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