



**The Punjab Public School Nabha
Holiday Home Work**

Winter Break (Dec 2024– Jan 2025)

Class- IX

ENGLISH

1. Summary of Act 2 of “Julius Caesar” by William Shakespeare.
2. Summary of the poem “The Night Mail” by W. H. Auden.
3. Summary of the short story “The Boy Who Broke the Bank” by Ruskin Bond.
4. Write two essays of your choice. (300-350 words)
5. Write two notices and two emails of your choice. Follow the formats as taught in the class.
6. Revise Tenses and Prepositions. (Refer to Total English.)

Note:

1. Please do Language and Literature assignments separately in two Project Files.
2. Please solve Terminal Papers (Language & Literature) in your Language and Literature notebooks separately.

MATHEMATICS

Note: All the HOLIDAY HOME WORK is to be done on a separate notebook.

- **Solve your Terminal Examination question paper.**
- **Do the specified questions from your Selina Textbook:**

Chapter Name	Page Number	Question Number
Simultaneous Linear Equations	96	Q 2 to 5 & Q 9
Indices	107	Q 6, 7 & 8
	110	Q2 (all parts)
Trigonometrical Ratios	300	Q2, Q 8 to Q 10
Trigonometrical Ratios of Standard angles	312	Q 2(i, iv, vi) Q3 (iii) & Q4 (i, iii, v)
	314	Q2 (i, iv), Q3 (ii, iii)
	318	Q2 (i, iii, v), Q3 (ii, iv)
Solution of Right Triangles	324	Q2 to Q 5
Complementary Angles	332	Q2 (all parts)
Triangles	133	Q 3 to Q 7
Isosceles Triangles	143	Q2 to Q 6

PHYSICS

Instructions:

1. All assignments must be completed neatly in your Physics notebook.
2. Ensure all diagrams are drawn with proper labels where necessary.

1. Reattempt the Terminal Examination Paper

- Reattempt all questions from your recent terminal examination.
- Use your textbook and notes to understand the concepts behind your mistakes.

2. Reading Activity

- Read the next upcoming chapter in your textbook:
- Chapter: Light
- Prepare 5 questions each conceptual & numerical based on the reading.

3. Completion of Numerical

- Solve all unsolved numerical questions from the chapters covered so far in the syllabus.
- For each numerical, write the formula, substitutions, and detailed steps.

CHEMISTRY

Do the following questions in your notebook

Language of chemistry Exercise 1C

Question number 8(balancing word equations)

Q2. Chemical changes and reactions Exercise 2B question number 10 Exercise 2C question number 11 and 12

Q3. Atomic structure and chemical bonding

Exercise 4E question number 17,18,19 ,20 ,21 and 22.

Q4. The periodic table Exercise 5B, 5C

Study of gas laws

Exercise 7 numericals 1 to 10

Q5. Hydrogen Exercise 6A

BIOLOGY

(1) Write a report on preventive methods of diseases in your city /village.

(2) Write a report on vaccination and immunization process for 0-5 years of children in your local area. Collect the information about 10 children

HISTORY

- **Students are expected to do the given Winter Holiday Homework in a separate note-book.**

SECTION -A (CIVICS)

1. Our Constitution provides for _____ citizenship.
2. Joint electorate in India means _____.
3. _____ Fundamental Right came into force in April 2010.
4. By which Amendment act Fundamental Duties were added in our Constitution .
5. Explain the term Secret Ballot system.
6. How can you say that the Indian Constitution is partly rigid and partly flexible ?
7. India is a welfare state .Explain what do you understand by this?
8. Mention the rationale behind the Universal Adult Franchise.
9. What does Right to Education implies?
10. Article 32 of the Indian Constitution confer s upon the citizens the right to constitutional remedies? What does it imply ?
11. Under what circumstances can the President suspend the Fundamental Rights?
12. Define Freedom of Speech and Expression.
13. Cultural and Educational rights protect the script and language of diverse communities .How do you agree with it ?
14. Mention when each of the following writs can be used : a) Mandamus b) Habeas Corpus c) Prohibition d) Certiorari e) Quo Warranto
15. Which fundamental duty has been included under 86th amendment and why ?
16. Briefly explain the difference between Directive Principles and Fundamental Rights.
17. Mention the points of difference between direct and indirect elections.
18. What do you understand by : a) General Election b) By-Election c) Mid Term Election.
19. What is the composition and function of Election Commission.
20. What does Balwant Rai Mehta Committee signifies ?
21. Briefly explain 73rd Constitutional Amendment Act,1992.
22. Describe the composition of : a) Gram Sabha b) Gram Panchayat c) Block/Panchayat Samiti d) Zila Parishad
23. Explain 74th Constitutional Amendment.
24. Write 4 obligatory and 4 optional function of Municipal Corporation.

SECTION – B (HISTORY)

1. Describe the town planning ,drainage system and the Great Bath of the Harappan Civilization.
2. Explain the position of women in Vedic Period.
3. State the differences between Jainism and Buddhism.
4. Write a note on the various archaeological sources of the Mauryan Empire.
5. What are Megaliths ? What is the importance of Mrgaliths.
6. Write a detail note on the Nalanda University.
7. Explain the discoveries made by Aryabhatta.
8. Write the features of the Vishnu temple situated at Deogarh.
9. Explain the administrative structure of the Delhi Sultanate.
10. Write the controversial measures taken by Muhammad-bin-Tughluq.
11. Describe the market system followed by Alauddin Khalji .
12. Write the characteristic features of Qutub Minar .
13. Write a note on the three categories of general assemblies followed under the local government during the Chola administration.
14. What was the position of women during the Sangam age ?
15. What was the code of conduct given by Asoka ? Explain its features.
16. Write a note on Akbar’s religious policy.
17. The education system during Akbar’s period was advanced .Explain how ?
18. Explain what do you understand by Mansabdari system ?
19. Explain the doctrines of Sufi movement.
20. Write four causes of Renaissance.
21. How did Martin Luther rise in revolt against the corruption within the Roman Catholic Church ?
22. Mention the causes of Industrial Revolution.
23. State the impact of the Industrial Revolution.
24. What was the impact of Capitalism.
25. What is meant by Socialism?

GEOGRAPHY

Project 1: On the outline map of the world, name, mark and shade the following:

- a. An area of Equatorial region and Monsoon region
- b. Rivers: Rhine, Hwang Ho, Nile, Mekong, Volga, Colorado, Ob, Amazon, Zaire, Niger
- c. Plateaus: Brazilian Plateau, Iranian Plateau, Tibetan Plateau and Canadian Shield
- d. Mountains: Andes, Ural, Great Dividing Range, Drakensberg, Atlas,, Appalachians and Himalayas
- e. Seas and Gulfs: North Sea, South China sea, Red Sea, Mediterranean Sea, Bering Strait, Caribbean sea, Persian Gulf, Gulf of Mexico.

Note*Students may use separate maps for markings. Kindly use colours while doing this project work and submit the maps in a file.

COMPUTER APPLICATIONS

1. Discuss history of java.
2. Discuss various data types with its range and size.
3. List down various operators of java.
4. Describe the role of JVM.
5. Why java is called platform independent.
6. What do you mean by constant how we can declare constant in java.
7. Describe the precedence and associativity of operators.
8. Solve $a+=++a + a-- + --a$ when $a=8$.
9. What is the value of y after evaluating the expression given below, when $\text{int } y=8$;
 $y+= ++y + y-- + --y$
10. Write the output of following;
 $r= (5\%2==0) 12 : 13$;
11. To calculate the area of perimeter of triangle having sides of length 2, 3 and 5 units.
12. Write down various methods of Scanner class.
13. Difference between syntax and runtime errors.
14. Write a program to input the distance travelled by a car in kilometers and the time taken in hours. Find the speed of car. Now convert the speed into m/s.
15. Write a program to input a letter and check whether it is an uppercase vowel, lowercase vowel or a consonant.
16. Write a program to print odd numbers using continue statements.
17. Differentiate between while loop and do- while loop.
18. Write a program to input the number of students in a class. For every student, enter their height and find the average height of the students of the class.
19. Write a menu driven program to perform the following.
 - a. Display the factor of number enter by user
 - b. Print the first 5 multiples of number
 - c. Find the sum of all numbers starting from 1 till that number.
20. Write a program to input a number. Check and display whether it is Niven number or not. (A number is said to niven if it is divisible by the sum of its digits).
21. Write a program using switch case to find the volume of a cube , a sphere and cuboid. For incorrect choice, an appropriate error message should be displayed.
 - a. Volume of cube= $s*s*s$
 - b. Volume of a sphere = $(4/3)*3.14*r*r*r$;
 - c. Volume of a cuboid= $l*b*h$
22. Write a program to input a number and check and print whether it is a pronic number or not.[A pronic number is the product of two consecutive integer for example $42 = 6*7$ and $72= 8*9$]
23. Write and program to find HCF of two numbers.
24. Write a program to find the sum of following series:
 $1+(1+2)+(1+2+3)+(1+2+3+4)\dots\dots\dots$ till n terms.

ECONOMIC APPLICATIONS

INSTRUCTIONS

- Students are required to prepare one project work out of two.
- Project file should be handwritten. You may past Graphs/Pictures related to the topic.
- Project file should include Introduction, acknowledgement, index, content and bibliography.

Topics

- Topics for the projects are.
 1. a. Define commercial banks. Elaborate major functions of commercial banks.
b. Role of RBI in the credit control policy.
c. Analyze a case study where consumer filed a case against firm/seller in the consumer court.

OR

2. a. Define law of demand.
b. Elaborate Joint demand, composite demand, individual demand, market demand
and derived demand with examples.
c. Briefly explain factors affecting demand of the commodity.

COMMERCIAL APPLICATIONS

Assignment#3 COMMUNICATION

- Draw a flow chart representing communication process
- Explain the various barriers in the process of communication
- Explain the characteristics of a good communicator
- Give one example of a real-life person that you think is an excellent communicator. What do you think makes him a good communicator?

Assignment#4 DEPARTMENTAL STRUCTURE

- Identify any one company or business organization
- Explore its website and download/print its organization structure showing all the departments in the company and its hierarchy
- Explain the functions of each department

Instructions:

- Each assignment must be of 8 pages minimum
- Draw charts/diagrams as required neatly
- You may add/paste other material to enhance your assignment
- Both assignments may be completed in a regular notebook or project file
- Assignments must be handwritten and not computer printed.
- Assignments must be submitted positively on 16th January, 2025.