

ARMY PUBLIC SCHOOL, BATHINDA MIL. STN.

HOLIDAYS HOMEWORK

CLASS IX

ENGLISH

SESSION: 2024-25

**I. Revise all the chapters done in class and the syllabus of Periodic Test-I as mentioned below:**

**READING: Unseen Comprehension Passage**

**WRITING: Short Story Writing (based on clues/opening line etc)**

**GRAMMAR: Tenses**

**LITERATURE**

**BEEHIVE : Ch-1: The Fun They Had**

**Ch-2: The Sound of Music: Part 1 and 2**

**Poem 1: The Road Not Taken**

**Poem 2: Wind**

**Moments: Ch-1: The Lost Child**

**Ch-2: The Adventures of Toto**

**II. ACTIVITY AND PROJECT WORK**

**(1) PROJECT WORK 1: Write an article/jokes/riddles/poems etc for the School Magazine.**

**(2) PROJECT WORK 2: Make a Power Point Presentation on the topics allotted against your Roll Numbers.**

|                  |                            |
|------------------|----------------------------|
| Roll No 1 to 7   | The Little Girl            |
| Roll No 8 to 14  | Rain on the Roof           |
| Roll No 15 to 21 | The Lost Child             |
| Roll No 22 to 28 | The Fun They Had           |
| Roll No 29 to 35 | A Truly Beautiful Mind     |
| Roll No 36 to 45 | The Lake Isle of Innisfree |

**WORKSHEET**

**Objective Type Questions:**

**1. On which date did Margie make an entry in her diary about schools?**

- a) 17 May 2156
- b) 17 May 2157
- c) 17 May 2158
- d) 17 May 2159

**2. Why were the pages of the book yellow and crinkly?**

- a) It was a very old book
- b) Its colour was yellow
- c) The words were written in yellow ink
- d) None of the above

**3. Where did Tommy find the book?**

- a) in the attic
- b) in the school
- c) in a shop
- d) in a library

**4. What was Margie scornful about?**

- a) the printed book
- b) the school
- c) Tommy
- d) e-book

**5. While inserting the home work in the slot, Margie was thinking about?**

- a) dessert
- b) vacation in Turkey
- c) old schools
- d) her mother

**6. What has made all the difference in the poet's life?**

- a) choosing a travelled road
- b) choosing a less travelled road
- c) not choosing any road
- d) choosing both the roads

**7. 'Road' is a metaphor for?**

- a) travelling wisely
- b) good health
- c) choices we make in life
- d) morning walks

**8. The second road had a better claim as:**

- a) it was attractive with green grassy carpet
- b) it needed to be explored
- c) it was full of surprises
- d) all of the above

**9. The poet doubts his comeback because:**

- a) he has to follow the road he chooses
- b) he is very lazy
- c) he is a man on the move
- d) he never repeats himself

**10. The poet decided that:**

- a) he would take the second road and leave the first one for some other day
- b) he would take the frequently trodden road
- c) he would go back and decide later on
- d) he would take the first road

**11. How were the people going to the fair?**

- a) going on foot
- b) riding on horses
- c) carried in bamboo and bullock carts
- d) all of the above

**12. How was the little boy feeling while going to the fair?**

- a) nervous
- b) frightened
- c) sad and unhappy
- d) full of life and laughter

**13. What did the child do when his parents said, 'Come, child come'?**

- a) He refused to move.
- b) He hurried towards them.
- c) He looked at them angrily.
- d) He began to cry.

**14. How did the flowering mustard-field look?**

- a) white like silver
- b) red like rose
- c) pale like melting gold
- d) lovely like a rainbow

**15. What did Kezia's father do before going to his office?**

- a) went to a temple
- b) touched his mother's feet
- c) took a walk
- d) used to kiss Kezia before going to office

**16. What did Kezia think of her father?**

- a) He is a very good father.
- b) He loves children.
- c) He is very harsh.
- d) All of the above

**17. What was Mr. McDonald playing with his children?**

- a) Rugby
- b) Chess
- c) Cricket
- d) Tag

**18. How did the little girl feel when her father looked at her over the spectacles?**

- a) happy
- b) joyful
- c) scared
- d) none of the above

**19. What does the wind poke fun at?**

- a) weak houses and weak doors
- b) weak rafters and weak wood
- c) weak hearts and weak bodies
- d) any living or non living thing that is weak and crumbling

**20. Find a word from the poem 'Wind' for 'thrown in different directions'.**

- a) scatter
- b) thrown
- c) blown
- d) none

**21. 'He won't do what you tell him'. Who is 'He' in this line?**

- a) God
- b) Wind God
- c) Wind
- d) All of the above

**22. What is the message of the poem 'Wind'?**

- a) be firm and strong
- b) make strong windows
- c) stop the wind
- d) all of these

**Long Answer Questions (100-120 words)**

1. Write a brief note on Margie's school routine.
2. Why does the poet of The Road Not Taken say "he shall tell people this with a sigh"?  
Why do you think the final stanza starts with a sigh?
3. Einstein wrote two letters – to President Roosevelt and the United Nations. Did his letters have the desired impact? Justify your answer.

आर्मी पब्लिक स्कूल बठिंडा  
कार्य पत्रक  
कक्षा- नवीं  
विषय- हिन्दी

कुलांक- 25

समय- 90 मिनट

प्रश्न 1 संधि कीजिए-

5

- (क) सुर+ईश
- (ख) दंत+ओष्ठ
- (ग) वि+ऊह
- (घ) अभि+आगत
- (ङ) मातृ +आनंद

प्रश्न 2 संधि विच्छेद कीजिए-

5

- (क) भानूदय
- (ख) जलोर्मि
- (ग) वसंतोत्सव
- (घ) महेश
- (ङ) नवागत

प्रश्न 3 आपको प्रधानाचार्य के द्वारा सर्वश्रेष्ठ छात्र का पुरस्कार प्राप्त हुआ । अपनी प्रसन्नता को अभिव्यक्त करते हुए अपने पिता जी को पत्र लिखिए ।

5

प्रश्न 4 निम्नलिखित प्रश्नों के उत्तर लिखिए :-

(5x2=10)

- 1 मनुष्य के जीवन में पोशाक का क्या महत्व है ?
- 2 रैदास ईश्वर के साथ किन किन रूपों में एकाकार हो गए हैं ?
- 3 स्मृति पाठ में दोनों भाइयों ने मिलकर कुएं में नीचे उतरने की क्या युक्ति अपनाई ?
- 4 डॉ मीनू मेहता ने क्या जानकारीयाँ दी ?
- 5 रैदास के पद का केन्द्रीय भाव अपने शब्दों में लिखिए ?

**ARMY PUBLIC SCHOOL BATHINDA MIL. STN.**

**CLASS: IX**

**SUBJECT: MATHEMATICS**

**HOLIDAYS HOMEWORK (2024-25)**

1. Revise Chapter 1, 2 & 3.
2. Two Assignments are given in this file. Do those Assignments on assignment pages.
3. One Math Activity is attached in this file. Do that activity on lab manual/Activity notebook.

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**CLASS: IX**

**SUBJECT: MATHEMATICS**

**ASSIGNMENT: A**

- Q1. Express  $32.12\overline{35}$  in the form of  $\frac{p}{q}$ .
- Q2. Simplify Find the value of  $x$ , if  $2^{x-5} = 256$
- Q3. Factorise :  $32a^3 + 108 b^3$
- Q4. Two points with coordinates (3,4) and (-5,4) lie on a line, parallel to which axis? Justify your answer.
- Q5. Represent  $\sqrt{3}$  on the number line.
- Q6. Factorise  $1 - 64a^3 - 12a + 48a^2$
- Q7. If  $a$  and  $b$  are rational numbers and  $\frac{\sqrt{11} - \sqrt{7}}{\sqrt{11} + \sqrt{7}} = a - b\sqrt{77}$ , find the values of  $a$  and  $b$ .
- Q8. Factorise the following polynomial:  $2y^3 - 5y^2 - 19y + 42$
- Q9. Factorise  $x^3 + 8y^3 + 64z^3 - 24xyz$
- Q10. If  $a + b + c = 9$  and  $ab + bc + ca = 40$ , then find the value of  $a^2 + b^2 + c^2$

**CLASS: IX**

**SUBJECT: MATHEMATICS**

**ASSIGNMENT: B**

- Q1. Express  $63.\overline{3} + 3.5$  the form of  $p/q$ , where  $p$  and  $q$  are integers and  $q \neq 0$ .
- Q2. Find the value of  $x$ , if  $125^x = \frac{25}{5^x}$
- Q3. Factorise:  $x^4 - 625$
- Q4. Without plotting points indicate the quadrant in which they will lie, if
- (i) ordinate is -3 and abscissa is 2
  - (ii) abscissa is 100 and ordinate is -100
  - (iii) abscissa is 73 and ordinate is 35
- Q5. Represent  $\sqrt{7.3}$  on the number line.
- Q6. Find the value of  $p$ , if  $(2x-1)$  is a factor of  $2x^3 + px^2 + 11x + p + 3$
- Q7. If  $a = \frac{3-\sqrt{2}}{3+\sqrt{2}}$  and  $b = \frac{3+\sqrt{2}}{3-\sqrt{2}}$ , find  $a^2 - b^2$ .

Q8. Factorise the following polynomial:  $3u^3 - u^2 - 12u + 16$

Q9. Factorise  $p(x) = 9x^2 + y^2 + z^2 - 6xy + 2yz - 6xz$ . Also determine the value of  $p(x)$ , when  $x = 1$ ,  $y = 2$  and  $z = 1$ .

Q10. An object which is thrown or projected into the air, subject to only the acceleration of gravity is called projectile, and its path is called trajectory. This curved path was shown by Galileo to be a parabola. Parabola is represented by a polynomial. If the polynomial to represent the distance covered is  $P(u) = -3u^2 + 24u + 12$

- (i) What is the degree of the polynomial?
- (ii) Find the value of  $P(2) + P(-2)$  from given polynomial.

✓ **Activity 2 – Factorisation of quadratic polynomials.**

**Topic**

Factorisation of quadratic polynomials

**Objective**

Learning geometrical representation of the factorisation of the following quadratic polynomials :

(i)  $x^2 + 5x + 6$

(ii)  $x^2 - x - 6$

(iii)  $x^2 - 5x + 6$

(iv)  $2x^2 - 5x + 2$

**Materials required**

Pink and blue coloured chart papers, sheets white of paper, geometry box, pair of scissors and gum.

**Pre-requisite knowledge**

- (i) Splitting the middle term of a quadratic polynomial.
- (ii) Formula for the area of a square and of a rectangle.

**Planning :**

- (i) Every  $x^2$  will be represented by the area of a pink square of side  $x$  units as shown in the adjoining figure.

Thus to represent  $2x^2$ , use two pink squares of side  $x$  units each.



- (ii) Every  $x$  will be represented by a pink rectangular strip of dimensions  $1 \times x$  as shown in the adjoining figure.

Thus to represent  $5x$ , use 5 pink rectangular strips of dimensions  $1 \times x$  each.



- (iii) Every  $-x$  will be represented by a blue rectangular strip of dimensions  $1 \times x$  as shown in the adjoining figure.

Thus to represent  $-3x$ , use 3 blue rectangular strips of dimensions  $1 \times x$  each.



(ii) All positive integers will be represented by pink unit squares as shown in the adjoining figure.



Thus to represent 6, use 6 pink unit squares.

(iii) All negative integers will be represented by blue unit squares, shown in the adjoining figure.



Thus to represent -6, use 6 blue unit squares.

#### Remark

Blue strips and blue unit squares means to cut off the area equal to the area of these pieces.

#### Factorisation of $x^2 + 5x + 6$

#### To perform the activity

#### Procedure

1. The polynomial  $x^2 + 5x + 6$  can be written as  $x^2 + 3x + 2x + 6$ .
2. To represent  $x^2$ , take a pink square of side  $x$  units; to represent  $3x$ , take 3 pink rectangular strips of dimensions  $1 \times x$  units each; to represent  $2x$ , take 2 pink rectangular strips of dimensions  $1 \times x$  units each, and to represent 6, take 6 pink unit squares.
3. To represent  $x^2 + 3x + 2x + 6$ , paste all the above pieces (cut outs from pink chart paper) on a sheet of white paper as shown in fig. 20.1.

#### Result

We observe that the area of the pink rectangle shown in fig. 20.1, represents the polynomial  $x^2 + 3x + 2x + 6$  i.e.  $x^2 + 5x + 6$  and the dimensions of this rectangle are  $(x + 3)$  units and  $(x + 2)$  units, therefore, the area of this rectangle is

$$(x + 3)(x + 2) \text{ sq. units.}$$

It follows that :

$$x^2 + 5x + 6 = (x + 3)(x + 2).$$

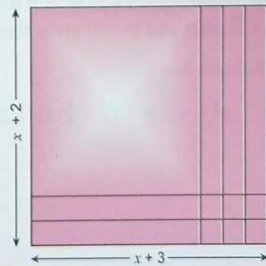


Figure: 20.1

**ARMY PUBLIC SCHOOL, BATHINDA MIL. STN.**  
**CLASS IX (SCIENCE)**  
**HOLIDAY HOMEWORK (2024-25)**

- I. Revise the syllabus of PT-1.**
- II. Write the following experiments in practical file:**
- a) Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells and to record observations and draw their labeled diagrams.
  - b) Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibres and nerve cells in animals, from prepared slides. Draw their labelled diagrams.
  - c) Determination of the melting point of ice and the boiling point of water.
  - d) Verification of the Laws of reflection of sound.
- III. Answer the following questions in fair notebook:**
- Q1. Draw a diagram to show inter conversion between states of matter.
- Q2. Draw a well labelled diagram of plant and animal cell.
- Q3. Draw a prokaryotic cell showing nucleoid, ribosomes and plasma Membrane.
- Q4. Write difference between the following: -
- a) Diffusion and Osmosis
  - b) Prokaryotic and Eukaryotic Cell
  - c) Animal and Plant Cell
  - d) Evaporation and Boiling
  - e) Smooth ER and Rough ER
  - f) Mitosis and Meiosis
  - g) Hypertonic and Hypotonic Solution
- Q5. Describe an activity showing Sublimation with diagram.
- Q6. Write short notes on: -
- a) Nucleus
  - b) Membrane Biogenesis
  - c) Factors affecting Evaporation
  - d) Plasma Membrane
- Q7. A truck travelling at 54 km/hr slows down to 36 km/hr in 10 sec. Find the retardation.
- Q8. The maximum speed of train is 90 km/hr. It takes 10 hrs to cover distance of 500 km. Find the ratio of its average speed to maximum speed.
- Q9. Draw the following graphs:-
- a) Uniform Velocity
  - b) Non-uniform Velocity
  - c) Constant Velocity
  - d) Accelerated Motion
  - e) Non- accelerated Motion
- Q10. Prepare a mind map of following chapters:
- a) Matter in our surroundings
  - b) The fundamental unit of life
  - c) Motion



**ARMY PUBLIC SCHOOL BATHINDA CANTT.**

**CLASS : IX (SOCIAL SCIENCE)**

**SESSION: 2024-25**

**HOLIDAYS HOME WORK**

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**1. Make a Project work on earthquake. (following points must be covered in project)**

(Definition of earthquake, Causes, Effects, Do's and Dont's, Steps after disaster, Earthquake prone area, Seismic zones in India, and Where do earthquake occur in world?)

**2. Assignment Work (Geo/eco)**

- (i) In which hemisphere India is located?
- (ii) Name the states through which tropic of Cancer passes.
- (iii) Name the states of India which has coastal boundary.
- (iv) Name the all highest peaks of Himalayas.
- (v) What is barchans?
- (vi) What is the importance of Plateau of India?
- (vii) What is the role of capital in farming? Explain.
- (viii) Modern farming methods require more inputs which are manufactured in industry. Do you agree? Comment.
- (ix) Describe the harmful effects of Green Revolution.
- (x) What are the four requirements of production? Explain.

**3. Draw concept map on chapter (physical features of India).**

**4. Revise the U.T 1 syllabus.**

**Note: Do all your holidays home work on assignment sheets.**

**ARMY PUBLIC SCHOOL BATHINDA MIL STN**  
**Class – IX (2024-25)**  
**HOLIDAY HOMEWORK – ARTIFICIAL INTELLIGENCE**

All the following activities are part of the internal assessment. For this student will be assessed out of 15 marks. Check the form link for the bifurcation of the marks.

Upload all the mentioned activities pdf in the following link: -

IX B - <https://forms.gle/BMa5tHeCdGJf1R1t8>

IX D - <https://forms.gle/HzHskQJqPBityKNT9>

IX E - <https://forms.gle/PhbhXEa1UXpWwwjW8>

**Activity 1: Write a letter/ an email to future self**

1. Imagine your future in the next 10 years (related to AI).
2. Type a letter or an email to your future self about what you want to see in the future or what you want to remind to your future.
3. The following points can be included in letter/email:
  - a. Start with your interests, hobbies, and skills.
  - b. Relate how AI can help you
  - c. Write about your career you want to pursue and how AI will make an impact on that.
4. Save the letter/ email in PDF format.
5. **Upload your pdf on the mentioned form**

**Activity 2: Share a minimum of five ideas about Smart Home** and write them on the sheet as shown in the attached image (refer the attached form) and **upload your pdf on the mentioned form.**

**Activity 3: How do you think Artificial Intelligence can help you as you go about your daily life?** Write them on the sheet as shown in the attached image (refer the attached form) and **upload your pdf on the mentioned form.**

**HOLIDAY HOMEWORK**  
**INFORMATION TECHNOLOGY**  
**CLASS 9**

**Treasure Hunt:**

- Make a list of 10 everyday activities where you encounter IT (e.g., using a smartphone, watching TV, playing online games).
- For each activity, explain how IT is used to make it possible.
- (Optional) Create a short presentation or infographic showcasing your findings.

**Finger Drills:**

- Learn the home row keys (ASDF JKL;) and practice placing your fingers correctly on those keys.
- Find some online typing practice resources (like TypingClub or Keybr) and start with basic finger exercises focusing on the home row.

**ARMY PUBLIC SCHOOL BATHINDA, MIL. STN.**

**CLASS IX-MARKETING & SALES**

**SESSION- 2024-25**

**SUMMER BREAK HHW**

**Prepare Power Point Presentation on the following topics:**

|           |   |
|-----------|---|
| <b>1.</b> | <b>a) Write pros and cons of written, verbal and non-verbal communication</b> |
|           | <b>b) Draw a diagram of communication cycle.</b>                              |
| <b>2.</b> | <b>Four concepts of marketing</b>   |

- **Revise UT-1 Syllabus.**
- **Prepare a list of different products and companies facing direct and indirect competition.**

**Class IX (Physical Activity Trainer)**

**UT 1**

**2024-25**

**Holidays Home Work**

**Questions Answer of Following Chapters**

1. Communications Skills
2. Role of Physical Education in Child Development
3. Planning Age-Appropriate Physical Activity

**Practical File**

Complete the practical file (Practical/PPT/Project which is given after the completion of the chapters)