

Modern Public School Sector 37 Faridabad

Holiday Homework for Summer Break

Session 2025-2026

Subject- Social Science

Class-10th

Instructions: Answer all the given questions in neat and clean handwriting.
Holiday homework questions will be done in Economics notebook.
Holiday homework should be submitted by 3rd July 2025

Q1- Compare the images of Bharat Mata in the second chapter of history with the image of Germania. Students can paste the picture of both.

Q2- Write four most important causes of environmental destruction/degradation.

Q3- “The future generation may not have sufficient resources as compared to the present generation”. Justify the statement by giving suitable examples.

Q4- India has a large cultural regional and religious diversity but there is unity among people. What factors are responsible for this? Elaborate.

Q5- What does HDI stand for? Explain the main criteria of measuring HDI according to UNDP report of 1990.

Q6- How the First World War helped in the growth of the National Movement in India?

Q-7 Distinguish between ‘coming together federation and holding together federation’?

Q-8 How can workers be protected in the unorganised sector?

Q-9 “Nature worship is an age old belief”. Explain how it has helped in the conservation of forests and wildlife.

Q-10 In the political **MAP of India**, locate and label the following important centres of Indian National Movement.

A- Champaran B- Kheda C- Dandi

D-Ahmedabad E-Nagpur

Q11. On the map of India show the places where different types of soil found .

Q12. **Show your creativity** – Make a model:

- Roll no -1 to 10, Unification of Italy / Germany
- Roll no - 11 to 20, Explain concept of National income and GDP by model
- Roll no -21 to 30, Statue of Liberty (by using waste material),
- Roll no -31 onwards- Gandhiji with Charkha.

Q13. **Art integrated activity**-Write a note on Natural resources found in Manipur .How they effect the state economy ?(Pictures and other material can be pasted on A4 size sheet)

Modern Public School
Sector -37 Faridabad
Holidays Homework For Summer Vacations
Class 10Th
Subject Science
Session 2025-26

Q.1 An aqueous solution of metal nitrate P react with sodium bromide solution to form yellow precipitate of compound Q which is used in photography. Q on exposure to sunlight under decomposition reaction to form metal present in P along with radish brown gas. Identify P & Q. Write the chemical reaction and type of chemical reaction.

Q.2 A student has mixed the solution of lead (II) nitrate and potassium iodide.

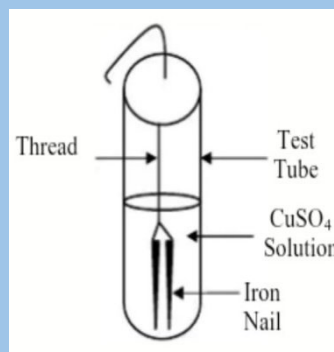
(a) What was the colour of precipitate formed ? Can you name the compound precipitated ?

(b) Write the balanced chemical equation for this reaction ?

(c) What type of reaction is it ?

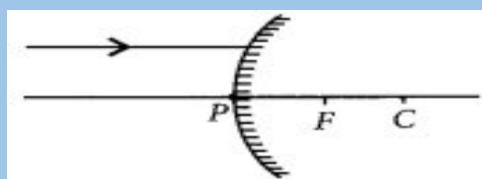
Q.3 Astha has been collecting silver coins and copper coins. One day she observed a black coating on silver coins and a green coating on copper coins. Which chemical phenomenon is responsible for these coatings ? Write the chemical name of black and green coatings ?

**Q.4 Name the type of reaction seen in the diagram below.
Write the reaction for same**



Q.5 Which characteristics of a chemical reaction do you observe when dilute sulphuric acid is added to zinc granules in a conical flask?

Q.6 A ray of light is incident on a convex mirror as shown. Redraw the diagram and complete the path of this ray after reflection from the mirror. Mark angle of incidence and angle of reflection on it



Q.7 The image of a candle flame placed at a distance of 30 cm from a mirror is formed on a screen placed in front of the mirror at a distance of 60 cm from its pole. What is the nature of the mirror? Find its focal length. If the height of the flame is 2.4 cm, find the height of its image. State whether the image formed is erect or inverted.

Q.8 One half of a convex lens is covered with a black paper.

(a) Show the formation of image of an object placed at $2F_1$, of such covered lens with the help of ray diagram. Mention the position and nature of image.

(b) Draw the ray diagram for same object at same position in front of the same lens, but now uncovered. Will there be any difference in the image obtained in the two cases? Give reason for your answer.

Q.9 Design an activity using concave mirror to prove that it is converging in nature. Also state a method to find its rough focal length.

Q.10 (a) State Snell's law of refraction.

(b) When a ray of light travelling in air enters obliquely into a glass slab, it is observed that the light ray emerges parallel to the incident ray but it is shifted sideways slightly. Draw a ray diagram to illustrate it.

Q.11 "The breathing cycle is rhythmic whereas exchange of gases is a continuous process". Justify this statement.

Q.12 Transpiration is a necessary evil. Justify the statement with highlighting the harmful and useful aspects of this process.

Q.13 (a) What happens when system of blood vessels develops a leak ?

(b) Plants have low energy needs as compared to animals. Explain?

Q.14 (a) If you chew a piece of bread for a long time it tastes sweet. Why ?

(b) What is common in cuscuta, ticks and leeches?

Q.15 Write one feature which is common to each of the following pairs.

(i) Glycogen and starch

(ii) Chlorophyll and hemoglobin

(iii) Girls and lungs

Art integrated project

Theme state :- Manipur and haryana

Aesthetic organization of the physical environment by enhancing the surrounding area, i.e. landscaping including plantation of trees other flowering plants and vegetables etc.

Key points: State-wise Landscaping Projects

Manipur

•Site Selected: (e.g., School garden / Temple / Park)

•Climate and Geography Overview

•Plant Selection: Siroi Lily, Bamboo, Marigold, Hibiscus, Tulsi

- Design Ideas: Bamboo fencing, curved beds, traditional motifs**

- Cultural Significance: Use of local traditions and plants in festivals**

- Benefits: Clean air, shade, biodiversity, cultural pride**

Haryana

- Site Selected: (e.g., Urban roundabout / School campus)**

- Climate and Geography Overview**

- Plant Selection: Neem, Amaltas, Gulmohar, Bougainvillea**

- Design Ideas: Symmetrical beds, drip irrigation, solar lights**

- Sustainability Features: Composting, water-saving techniques**

Modern Public School

Holiday Homework

Class X

Subject Maths

1) Which of the following equations has the sum of its roots as 3?

(A) $2x^2 - 3x + 6 = 0$

(B) $-x^2 + 3x - 3 = 0$

(C) $\sqrt{2}x^2 - 3/\sqrt{2}x + 1 = 0$

(D) $3x^2 - 3x + 3 = 0$

2) one of the zeroes of the quadratic polynomial $(p - 1)x^2 + px + 1$ is -3, then the value of p is a) $\frac{3}{4}$ b) $\frac{4}{3}$ c) $-\frac{3}{4}$ d) $-\frac{4}{3}$

3) The pair of equations $x = a$ and $y = b$ graphically represents lines which are

- a) Parallel b) intersecting at (b, a)
- c) intersecting at a, b d) coincident

4) The 10th term from the end of the A.P. -5, -10, -15, ..., -1000 is

- (a) -955
- (b) -945
- (c) -950
- (d) -965

5) The largest number which divides 70 and 125, leaving remainders 5 and 8, respectively, is (A) 13 (B) 65 (C) 875 (D) 1750.

6) The 11th term of the AP: $-5, (-5/2), 0, 5/2, \dots$ is (A) -20 (B) 20 (C) -30 (D) 30 .

7) If the common difference of an AP is 5, then find $a_{18} - a_{13}$? (A) 5 (B) 20 (C) 25 (D) 30

8) The present age of the father is 3 years more than three times the age of the son. Three years hence, the father's age will be 10 years more than twice the age of the son. Determine their present age. (Ans. present age of the father = 33 years, and the present age of his son = 10 years.)

9) Points A and B are 70 km apart on a highway. A car starts from A, and another car starts from B simultaneously. If they travel in the same direction, they meet in 7 hrs, but if they travel towards each other, they meet in one hour. Find the speed of two cars. (Ans. 40 km/hr. And 30 km/hr.).

10) If α and β are the zeros of the quadratic polynomial $f(t) = t^2 - 4t + 3$, find the value of $\alpha^4\beta^3 + \alpha^3\beta^4$. (Ans. 108).

11) Given that $\sqrt{2}$ is irrational, then prove that $(5 + 3\sqrt{2})$ is an irrational number.

12) Write the smallest number which is divisible by both 360 and 657. [Ans. 26280]. 13) Find the value of p for which the quadratic equation $(2p + 1)x^2 - (7p + 2)x + (7p - 3) = 0$ has equal roots. Also find these roots. [Ans. 7, 7].

14) A train, travelling at a uniform speed for 360 km, would have taken 48 minutes less to travel the same distance if its speed were 5 km/h more. Find the original speed of the train. (Ans. 45)

15) Determine the AP whose fifth term is 19 and the difference of the eighth term from the thirteenth term is 20. (Ans. 3, 7, 11)

16) find the nature of roots

(A) $2x^2 - 3\sqrt{2}x + 9/4$

(B) $x^2 + x - 5 = 0$

(C) $x^2 + 3x + 2\sqrt{2} = 0$

(D) $5x^2 - 3x + 1 = 0$

Art integrated Activity

To verify the condition of consistency and inconsistency in linear equation in two variables

मॉडर्न पब्लिक स्कूल ,सेक्टर-37 फरीदाबाद

ग्रीष्मावकाश गृहकार्य

सत्र (2025-26)

कक्षा -10

विषय -हिंदी

1. प्रतिदिन एक पृष्ठ सुलेख लिखिए।

2. टेस्ट सीरीज-1

पाठ्यक्रम-

गद्य- नेताजी का चश्मा, बालगोबिन भगत

पद्य- सूर के पद, राम-लक्ष्मण-परशुराम संवाद

कृतिका-माता का आंचल

व्याकरण- वाक्य भेद, वाच्य,अलंकार, पत्र, ईमेल, संदेश लेखन

3.वाच्य के तीनों भेदों की परिभाषा लिखकर दो - दो उदाहरण लिखिए ।

4. वाक्य के तीनों भेदों की परिभाषा (रचना के आधार पर) लिखकर दो-दो उदाहरण लिखिए ।

5. अर्थालंकार के भेदों की परिभाषा लिखकर दो-दो उदाहरण दीजिए।

6. 'नेता जी का चश्मा' पाठ से हमें क्या सीख मिलती है अपने शब्दों में लिखिए ।

7. 'राम-लक्ष्मण-परशुराम संवाद' कविता से लक्ष्मण व परशुराम के संवाद को लिखिए।

8. बालगोबिन भगत पाठ में किन सामाजिक रुढ़ियों पर प्रहार किया गया है ?

9. किसी भी एक ज्वलन्त (समसामयिक) समस्या पर किसी प्रतिष्ठित समाचार पत्र के संपादक का ध्यान आकर्षित करते हुए 80-100 शब्दों में एक पत्र लिखिए तथा सुझाव भी बताइए ।

10. सोशल मीडिया : एक धीमा जहर

विषय पर 120 शब्दों में अनुच्छेद लिखिए।

11. कला एकीकृत गतिविधि-(Art integrated activity)

'मेरा शहर साफ हो और इसमें मेरा भी हाथ हो' पंक्तियों को माध्यम बनाकर शीर्षक देते हुए अभिनय करने के लिए एक स्क्रिप्ट तैयार कीजिए।

12. मणिपुर और हरियाणा के प्राकृतिक संसाधनों पर एक सचित्र लेख लिखिए ।

(A-4 Size Sheet)

- *उपरोक्त सभी कार्य एक पतली कॉपी में करें।
- *कार्य की स्वच्छता का विशेष ध्यान रखें ।

CLASS X

SUMMER HOLIDAY HOMEWORK (2025-26)

Q.Prepare a project file on the various operations of Libre Office Writer

a)Styles

b)Inserting objects in a document

c)Table Of Contents

d)Templates

Syllabus for TEST SERIES 1

Part B Unit 2 Electronic spreadsheet

Modern Public School

Holiday Homework (English) (session 2025-26)

Class X

GENERAL INSTRUCTIONS

1. HOLIDAY HOMEWORK should be presented neatly and organise, in Supplementary Notebooks.
2. Must Ensure PROJECT AND ACTIVITY preferably on A4 size sheets.
3. Complete the Homework independently with parental guidance as needed.
4. Must Complete the Holiday Homework within the Holiday period is crucial, often with specific deadlines and submit by July 1, 2025.
5. Students Must spend time reviewing the material covered in class to reinforce learning regarding to TEST SERIES-1 SYLLABUS.

Q-1: solve the following unseen passages in your prescribed module (Prachi Grammar Textbook):

Worksheet -6,7(pg nos. 15-16,17-18)(Discursive)

Worksheet 19,20 (pg nos. 41-42,43-44)(Case Based)

Q-2: Attempt the following Formal letters in module:

Worksheet 38- Ordering letter (pg.no.97)

Letter no 16- complaint letter (pg.no.98)

Letter no 20 - Inquiry Letter (pg.no.102)

Q:3- Attempt the following Analytical Paragraph Writing in Module:

Worksheet 44 no 7 (pg no.119)

Worksheet 45 no 9 (pg no. 121)

Q-4: Complete Miscellaneous Grammar

set III , Worksheet no 92 (pg no. 255) in module.

Q- 5: Answer the following questions in 40-50 words:

- a) What " twin obligations" does Mandela mention ?
- b) What do you understand by the term 'apartheid'.
- c) 'Family played a vital role in the first flight of the young seagull'. Give examples to substantiate the above statement.
- d) Validate the given statement with reference to baby seagull's fear.
'Fear doesn't exist anywhere else other than one's mind'.
- e) The narrator says,"I was very happy to go behind the strange aeroplane like an obedient child".Why do you think the pilot followed the black aeroplane like an obedient child ?
- f) James Lane Allen says,"Adversity reveals character". What do you learn about the narrator from the experience? Mention any two traits supported by the textual evidence.
- g) Write the message that the poem ' Fire and Ice ' conveys.
- h) Freedom can't be bargained at any cost. What message does the poet give to the readers in 'A Tiger in the Zoo' ?
- i) Was Hari Singh successful in robbing Anil ? was Anil the only one who was robbed or did Hari also rob himself of something?
- j) " Never judge a book by its cover ". Elaborate on the given quote in the context of " The Midnight Visitor ".

Q-6: Art Integrated Project:

Play-Writing: unscripted play to be written down in the form of a script to be acted. (Art Integrated Activity).The young seagull's parents wanted him to fly, like his brothers and sister. How could the young seagull's newly flying siblings (Brother 1, Brother 2 and Sister) and parents must have motivated him ? Write a brief conversation among them and construct a play with a different title on A4 size sheets.

Q-7; Multidisciplinary Project :

Write an Analytical paragraph on Natural Resources of Manipur and Haryana on A4 size sheets. Find out various techniques and methods used in the states of Manipur and Haryana for conserving resources and make a comparative report using bar graphs and tables etc.

DATA MUST BE PASTED.

NOTE: As per data given by Maths Teacher.

Both activities should be compiled in a Portfolio.