

St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi-110092

Session: 2023-2024- Summer Holiday Homework

Class: IX

Summer Holiday

Homework

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Class- IX

**“SUCCESS IS THE SUM OF SMALL
EFFORTS, REPEATED.”**

R COLLIER

**HAPPY
SUMMER
VACATION!**

GENERAL INSTRUCTIONS



- 1. Dear students, you have to compile work which has been done till now in your school notebook/registers. Either pen down or paste the printed worksheet in your notebooks/registers.**
- 2. Maintain your school notebook/register properly. Whatever work or worksheet has been done in the class needs to be pasted or stapled in school notebook only. Your notebook will be accessed out of 5 marks for each subject.**
- 3. Do your work neatly; neatness of work will be highly appreciated.
Your holiday homework carries marks and it is compulsory for all. Submit your holiday homework ontime after the vacation.**

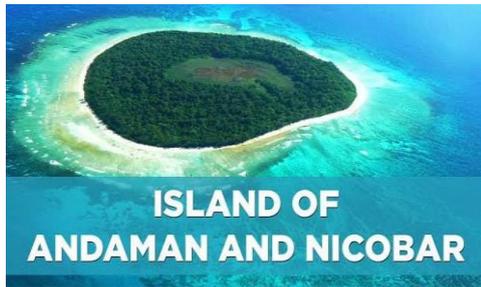
ENGLISH

Instructions:

1. Do the project work on coloured A4 size sheets.
2. Worksheet has to be done on ruled sheets.
3. Compile all the work in a folder and design a cover page for the same.

PART- I

Q1. Make a project on a Union territory of India including the following points:



- History of this place
- Location on Map
- Society and culture
- Religion
- Tourism
- Cuisine

NOTE: a. 'Andaman and Nicobar Islands'. (For R.No 1 to 20)

b. "Lakshadweep Island" (For R.No. 21 Onwards)

Q2a. Make a Travel Brochure of "Lakshadweep Island" on A3 size sheet, which should be handmade, creative, and legible. **(R.NO.1 TO 20)**

Q2b. Collect or create or replicate a souvenir of "Andaman and Nicobar Islands" **(R.No. 21 Onwards)**

Q3. COLLAGE MAKING

The theme of India's G20 Presidency - "Vasudhaiva Kutumbakam" or "One Earth · One Family · One Future" affirms the value of nature, green development, climate finance which is intertwined with sustainable traditions.



वसुधैव कुटुम्बकम्
ONE EARTH · ONE FAMILY · ONE FUTURE

‘Nature is the purest portal to inner-peace’

The emblem reflects nature’s power to hold the mankind and nature as the foundation for everything. Everyday nature inspires and influences us in different ways. Click original pictures of the beautiful scenes around you. Using your own creative ideas, **Make a collage (on A-3 size sheet)** of the same and provide appropriate captions showcasing the theme of G20 India along with the brief description about ‘Sustainable Ways to Protect Climate’.

PART-II

Q1. Read the given extract and answer the following questions as directed.

*1. "And both that morning equally
lay In leaves, no step had trodden
black Oh, I kept the first for
another day!
Yet knowing how way leads on to way,
I doubted if should ever come back."*

Questions:

- (i) The poet decided that:
- a) he would take the frequently trodden road
 - b) he would take the second road and leave the first one for some other day
 - c) he would go back and decide later on
- (ii) 'Leaves no step had trodden black' implies:
- a) that the road was not taken by anyone
 - b) that it was not a safe road
 - c) that the poet was not interested in taking the road
- (iii) 'Should ever come back' show that the poet was:
- a) Confident
 - (b) Indecisive
 - (c) Optimistic

2. Evelyn Glennie’s loss of hearing had been gradual. Her mother remembers noticing something was wrong when the eight-year-old Evelyn was waiting to play the piano. “They called her name and she didn’t move. I suddenly realised she hadn’t heard,” says Isabel Glennie.

- (i) Who was Isabel Glennie?
- a) Evelyn’s mother
 - (b) Evelyn’s aunt
 - (c) Master percussionist
- (ii) Why did Evelyn Glennie not move to play the piano?
- a) She could not hear her name
 - b) She was busy with something else
 - c) She was not interested

(iii) When was her deafness noticed?

- a) At 17 years of age (b) At 11 years of age (c) At 8 years of age

Q2. Answer the following questions in 30-40 words each.

1. Why did Evelyn say, “Men with bushy beards give me trouble”?
2. How did Evelyn’s teachers respond when she expressed her desire to play a xylophone?
3. Parents were in a hurry to reach the fair but the child was delaying them. How?
4. What is the setting of the poem “The road not taken”?
5. What kind of teachers did Margie and Tommy have? How were they different from teachers in the book?

Q3. Answer the following question in about 100-150 words.

1. Write a note on the theme of the story ‘The Lost Child’.
2. Evelyn is an inspiration to all. Justify.
3. Describe the old school as described in the book? How did it influence Margie?

GRAMMAR

Q4. *Fill in the blanks with correct form of the verbs given in bracket.*

- (a) We(go) to Guwahati by Rajdhani Express last month.
- (b) Rajdhani train(be) a fully air-conditioned train.
- (c) It..... (provide) food, cold drinks, water, and the blankets at night.
- (d) The journey(be) cool. It imparted solace to the soul and mind.
- (e) On the opposite, there (be) a priest.
- (f) He (be) in the church of Patna for the past twenty years.
- (g) I was informed that he (read) a book.
- (h) He did not say when he(come).
- (i) I hope that you..... (pardon) me soon.
- (j) He taught me that good deeds(be) never lost.

WRITING SKILLS

Q5. You recently lost an expensive wristwatch belonging to your grandfather. You are now feeling afraid to confess. Express your feelings of anguish through a diary entry in 100- 150 words.

हिन्दी

1. अपने छोटे भाई /बहन को समय का सदुपयोग बताते हुए तथा समय सारणी /टाइम टेबल के अनुसार अध्ययन करने के लिए सुझाव देते हुए पत्र लिखिए।

2. आप 15, माल रोड,मसूरी की रहने वाली गरिमा है आपकी सहेली गीता का जन्मदिन था उसने जन्मदिन की पार्टी में अन्य दोस्तों के साथ आप को भी बुलाया था,पर अचानक आपके अस्वस्थ हो जाने के कारण आप नहीं जा सकीं। अपनी सहेली से क्षमा-याचना करते हुए पत्र लिखिए ।

3. संकेत बिंदु के आधार पर अनुच्छेद लिखिए-

1. सादा जीवन उच्च विचार

संकेत बिंदु-

सादा जीवन कैसा होता है

सादे जीवन के लाभ

सादे जीवन से उच्च विचार कैसे बनते हैं ।

2. स्वतंत्रता का महोत्सव

संकेत बिंदु:-

स्वतंत्रता का अमृत महोत्सव क्या है।

स्वतंत्रता का जीवन में महत्व अमृत महोत्सव क्यों आवश्यक

4. नीचे दिए गए विषयों पर संवाद लेखन लिखिए -

इंटरनेट की उपयोगिता पर वार्तालाप करते हुए दो विद्यार्थियों का संवाद लिखिए ।

एक मंच पर दो राजनीतिक दल के नेता बैठे हैं दोनों नेता अपनी-अपनी पार्टी की विशेषताएं बता रहे हैं,दोनों के मध्य वार्तालाप को संवाद शैली में लिखिए।

5. अंडमान निकोबार दीप समूह पर निम्न बिंदुओं के आधार पर परियोजना कार्य तैयार कीजिए। (चित्र सहित फाइल बनाइए) त्योहार

वेशभूषा

खानपान

नोट:-करवाया गया कार्य याद भी कीजिए।

संस्कृतम्

प्रश्न 1 हरि, गुरु, मातृ, फल, तत् (तीनों लिंगों में) शब्द रूप लिखिए तथा याद कीजिए ।

प्रश्न- 2 नम्, अस्, गम्, कृ, नी, धातु रूप (लट्, लृट्, लंग, लोट्, विधिलिंग) पांचो लकार में लिखिए तथा याद कीजिए।

प्रश्न -3 पत्र लेखनम् - पत्र संख्या 6, 11, 18, 22, 23(Together with) से A-4 साइज़ शीट पर लिखकर अभ्यास कीजिए।

प्रश्न - 4 पंच चित्राधारितं सरल संस्कृते पंच वाक्यानि लिखत् । (A -4 साइज़ शीट पर)

प्रश्न-5 सावधिक परीक्षा (P.T. 1) पाठ्यक्रम याद कीजिए।

प्रश्न-6 उच्चारण स्थानम् पृष्ठ संख्या 66,67,68 (Together with) से अभ्यास कीजिए।

- नोट : (1). प्रश्न 1,2, उत्तर पुस्तिका (Notebook) में कीजिए ।
(2).प्रश्न 3, 4 (A-4 साइज़ शीट पर) कीजिए।
(3).प्रश्न 6 (Together with) में अभ्यास कीजिए।

MATHEMATICS

Answer the following questions in your mathematics registers:

1. Express the following in p/q form

- a) 3.7
- b) 18.48
- c) 0.15

2. Represent $\sqrt{5}$ on number line.

3. Find x, if $5^{4x+2} = (1/125)^{x+4}$

4. Simplify:-

a) $3\sqrt{5} + \sqrt{5} + \sqrt{180}$ (b) $\sqrt{54} + \sqrt{150}$

5. Give an example each of two irrational numbers, whose

- a) difference is a rational number
- b) difference is an irrational number
- c) sum is a rational number

6. Write the degree of the given polynomials : (i) $(2x + 4)^3$ (ii) $(t^3 + 4)$

7. Write the coefficient of x^4 and x in $4x^3 - 5x^4 + 2x^2 + 3$

8. Find the product using suitable identities: $(4 + 5x)(4 - 5x)$.

9. What is the value of k in polynomial $x^2 + 8x + k$, if -1 is a zero of the polynomial?

10. Show that $x + 1$ and $2x - 3$ are factors of $2x^3 - 9x^2 + x + 12$.

11. If $a^2 + b^2 + c^2 = 20$ and $a + b + c = 0$, find $ab + bc + ca$.

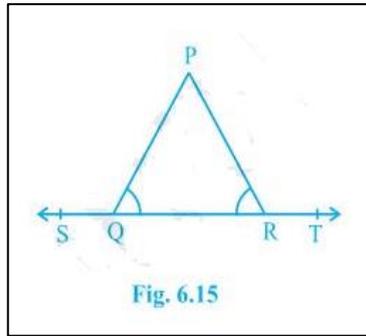
12. If $9x^2 + 25y^2 = 181$ and $xy = -6$, find the value of $3x + 5y$.

13. Find the zeroes of $f(z) = z^2 - 2z$

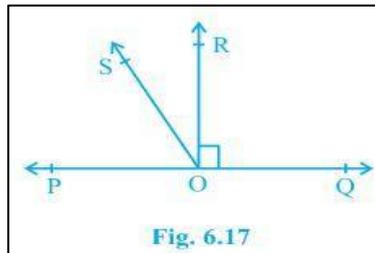
14. Simplify: $(x^2 + y^2 - z^2)^2 - (x^2 - y^2 + z^2)^2$

15. If $f(x) = 5x^2 - 4x + 5$, find $f(1) + f(-1) + f(0)$.

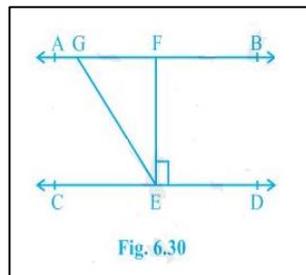
16. In Fig. 6.15, $\angle PQR = \angle PRQ$, then prove that $\angle PQS = \angle PRT$.



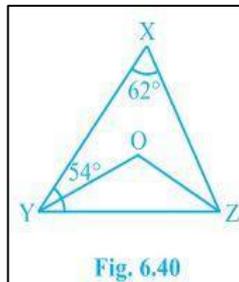
17. In Fig. 6.17, POQ is a line. Ray OR is perpendicular to line PQ. OS is another ray lying between rays OP and OR. Prove that $\angle ROS = \frac{1}{2} (\angle QOS - \angle POS)$.



18. Fig. 6.30, if $AB \parallel CD$, $EF \perp CD$ and $\angle GED = 126^\circ$, find $\angle AGE$, $\angle GEF$ and $\angle FGE$.



19. Fig. 6.40, $\angle X = 62^\circ$, $\angle XYZ = 54^\circ$. If YO and ZO are the bisectors of $\angle XYZ$ and $\angle XZY$, respectively of $\triangle XYZ$, find $\angle OZY$ and $\angle YOZ$.



ACTIVITIES

Do activities 2, 3, 4, 5 and 10 in your mathematics lab manual.

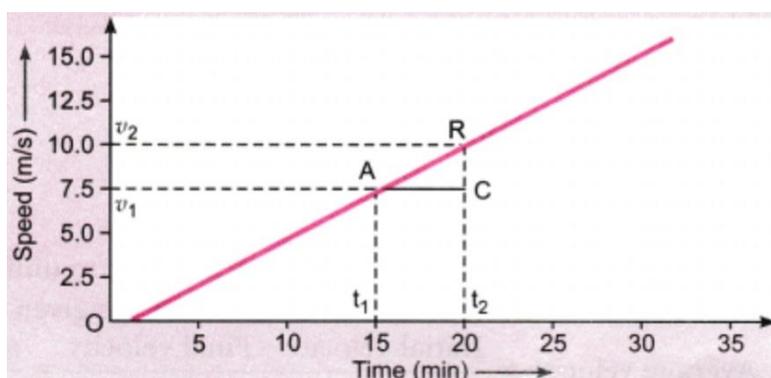
SCIENCE

INSTRUCTIONS:

- 1- Do the worksheet in your respective subject registers.
- 2- Revise all work done in class
- 3- Complete the notes.
- 4- Do Question and Answer of Chapter- 5 in your Biology register.

PHYSICS

1. A body starts to slide over a horizontal surface with an initial velocity of 0.5 m/s. Due to friction, its velocity decreases at the rate 0.05 m/s^2 . How much time will it take for the body to stop?
2. The brakes applied to a car produce an acceleration of 6 m/s^2 in the opposite direction to the motion. If the car takes 2s to stop after application of brakes, calculate the distance travelled by the car during this time.
3. A body travels along a circular path of radius 70 m. After travelling half a revolution in 20s, find the
 - a) Average velocity
 - b) Average speed
4. With the help of graph, derive the equation $s = ut + \frac{1}{2}at^2$.
5. Given below is the velocity-time graph for the motion of the car. What does the nature of the graph show? Also find the acceleration of the car.



CHEMISTRY

1. Differentiate between evaporation and boiling. (2 points)
2. How can we liquefy a gas?
3. Define latent heat of fusion.
4. Define latent heat of vaporization?
5. Convert the following in Kelvin scale.
 - a) 300°C
 - b) 150°C

BIOLOGY

1. Define protoplasm.
2. Name the cell organelle which is exclusively found in plant cell.
3. State important functions of golgi apparatus.
4. State two functions of vacuoles.
5. Draw the diagram to show animal cell and label the following parts:
 - a) Powerhouse of the cell.
 - b) Suicidal bag
 - c) Endoplasmic Reticulum

SOCIAL SCIENCE

INSTRUCTIONS:-

- **Do the Worksheet in any of your subject register.**
- **Do the project in a project file.**
- **Do both the maps and paste it in your subject register.**
- **Complete the chapters done in class.**
- **Revise all the work done in class.**

Q1. Prepare a project file on Andaman and Nicobar group of Islands. The project should include the following:-

- A comprehensive study of its location, Formation, Origin, Main features, Maps ,Cities
- Cuisine, Art & Literature , Traditional dance forms
- Clear, related and coloured pictures
- Usage of pictures and graphs is compulsory for the activities.
- Project should be based on individual research.
- Minimum 8-10 pages
- The activities must be done in the project file itself

Q2. A) On a Political map of India, mark and label the following:

- Mountain Ranges: The Karakoram, The Zasker. The Shivalik, The Aravali, The Vindhya, The Satpura, Western & Eastern Ghats
- Mountain Peaks-K2, Kanchan Junga, Anai Mudi
- Plateau-Deccan Plateau. Chotta Nagpur Plateau Malwa Plateau Coastal Plas Konkan, Malabar, Coromandal & Northern Circar (Location and Labelling)

B) On the Political map of France, mark the following places:

- Bordeaux, Nantes, Paris, Marseilles

Do the worksheet given below:

Worksheet

1. How do the medium and large farmers obtain capital for farming? How is it different from the small farmers
2. Giving an example of Zimbabwe, show how laws were made by one single ruler
3. What was the role of philosophers in the French Revolution?
4. How was the taxation policy responsible for the French Revolution?
5. Give some important characteristics of Northern Plains.
6. State three reasons of the variation in the wages of farm labourers all over India.
7. “ India has a large coastline which is advantageous “. Explain.
8. Compare the democratic system in China with Mexico.

ARTIFICIAL INTELLIGENCE

Note: Do it in your A.I Notebook.

Q.1 Write code in your notebook with output .

- 1) simple program to add two numbers.
- 2) Write a program to multiply two numbers.
- 3) Python print () with end parameter (Get output in a single line) .

Q.2 Write the purpose of the following:

1. Input()
2. float()
3. print()
4. Int()
5. #

Q.3 Fill in the blanks:

1. IDE stands for _____ .
2. A _____ Determines the type of data stored in a variable.
3. A python program can be saved in the _____ mode.
4. _____ is the developer of python.
5. _____ is the extension for python.
6. The data type of 16.2 is _____.
7. The data type of 79 is _____.
8. _____ are the steps to save a file.
9. _____ is the extension of python.
10. _____ and _____ are the two modes of python.

Q.4 Write the python statement to achieve the following:

- A) To display “ this is my first program in python”.
- B) To display add of two numbers.

SUPW

1. Make a set of 2 'hanging planters' with different smiling themes, out of waste plastic bottles and a plant. Submit it after Summer vacation.
2. Make a beautiful Zantangal art using different coloured pen in art file nicely.
3. Complete all the pending classwork.

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