

SRI GURU NANAK PUBLIC SCHOOL  
SUMMER BREAK HOLIDAY HOMEWORK(2023-24)  
CLASS IX  
SUBJECT- ENGLISH

**TASK 1**

Your family trip to Andaman Nicobar - Its rich emerald waters, pristine beaches, lush tropical forests, mangroves, tribal cultures and rich diversity in terms of people, food, forests, flora, fauna and landscapes make it an archipelago of unparalleled beauty on the earth was a very enriching experience for you and your family. This trip gave you a kaleidoscopic view of nature's wonder. The mesmerizing sight of clear blue sky against the backdrop of sea evoked in you a sense of awe and reverence for this rich nature's trove in our country.



Pen down the description of the Andaman and Nicobar Islands in about 120 words. Your account should vividly describe the place, its climate, flora & fauna & your takeaway. Do this task on an A4 size sheet.

**TASK-2**

Write a self composed poetry on the given topics with minimum 4 stanzas on an A4 size sheet.

A) Music

B) I am blessed

C) My school My pride

**TASK-3**

Given below is a list of literary devices. Make a video and select any one poem from the syllabus as well. Describe any five literary devices used in it while explaining the literary devices in the video.

Simile

Oxymoron

Metaphor

Personification

Irony

Repetition

Hyperbole

Allusion

Apostrophe

Paradox

Onomatopoeia

#### **TASK-4**

Read any chapter and summarize it in the form of PowerPoint Presentation (slides). The slides must be in the following order:

- Author's description
- General information about the chapter
- Characters' description(Character Sketches of all main characters) ● Message in the chapter

#### **TASK-5**

Create a beautiful notebook of handmade sheets. Write 10 idioms and their meanings along with 20 difficult words shortlist from your text. Also write their antonyms and synonyms in a notebook.

#### **GRAMMAR WORKSHEETS**

Please paste the following worksheets in your CW register and Solve them.

#### **WORKSHEET-1**

Question 1.

In the given paragraph, one word has been omitted in each line. Write the missing word along with the word that comes before the word and the word that comes after it in the space provided as shown.

Tears are produced by tear glands which keep the eye moist and are normally drained the

a..... nose. Onions a number of water-soluble volatile

(b)..... substances containing sulphur, cutting the onion

c..... these spread the air and cause irritation in the eyes.

(d).....

The tear glands start secreting more and more tears wash out the irritants.

- (e).....  
 The tears are produced fast that they cannot be drained out  
 (f)..... through  
 nose and so run  
 (g).....  
 down the eyes thus making cry. (h).....

**WORKSHEET-2**

The following passage has not been edited. There is an error in each line. Write the incorrect word and the correction in the blank spaces. The first one has been done as an example.

The next day during an break when all the teacher and students was eating their snacks, the mother left the school building hurriedly. The boy saw him walking quickly from of the school gate when he was drank water after his meal and wonder where his mother is going.

- Incorrect – Correct an  
 – the (a) .....  
 – .....  
 (b) ..... – .....  
 (c) ..... – .....  
 (d) ..... – .....  
 (e) ..... – ..... (f) ..... – .....  
 (g) ..... – ..... (h) .....  
 ..... – .....

**WORKSHEET-3**

Q1. The following passage has not been edited. There is one error in each line. Write the incorrect word and the correction against the correct question number.

Ranga was unaware to the narrator's (1) \_\_\_\_\_ plan to getting him married to (2) \_\_\_\_\_ the beautiful girl named Ratna. (3) \_\_\_\_\_ It tutored Shastri to hint (4) \_\_\_\_\_ for Ratna's name in his conversation (5) \_\_\_\_\_ with Ranga. The narrator believes in (6) \_\_\_\_\_ early marriage of boy and girls. (7) \_\_\_\_\_

He was succeed in changing Ranga's (8) \_\_\_\_\_ mind. Ratna was only eleven ear (9) \_\_\_\_\_ old, when they got married. (10) \_\_\_\_\_

#### **WORKSHEET-4**

##### **NARRATION**

Q1. Read the conversation between a teacher and student and complete the passage that follows.

A. Neha: I'm really looking forward to the class picnic tomorrow.

Namita: Yes, after a long time we will be meeting our friends and teachers.

Neha told Namita (1) \_\_\_\_\_ forward to the class picnic Namita agreed that after a long time (2) \_\_\_\_\_ friends and teachers.

B. Biology Teacher: I instructed you to draw the diagram of bacteria. Why did you submit a blank sheet?

Sameer: Sir, I had drawn the diagram of bacteria, but you can't see it because it is not visible to the naked eye

The biology teacher had instructed Sameer to draw the diagram of a bacterial cell and asked him (a) ..... a blank sheet. Sameer respectfully answered that he had drawn the diagram but (b).. ..... to the naked.

#### **WORKSHEET-5**

Q. Rewrite the following sentences with the correct form of the verbs in the brackets.

1. The invitation is for one person. I don't mind whether you or she (come) to the party.
2. Neither the MPS nor the Prime Minister (have) felt regret for the party split.
3. I don't care whether he or she (win) the lottery.
4. Either the Kantipur or the Republica (be) used for the advertisement.
5. She speaks in a strange accent. Neither I nor my sister (understand) her.
6. I forgot whether the singers or the actress (be) given the Film Fair Award last year.
7. Neither the gas fire nor the electric heaters (be) suitable for room heating.

## WORKSHEET-6

This passage contains the agreement errors. Correct the subjects or verbs that don't agree with each other. Remember to use present tense in your corrections.

Within the state of Arizona, Rob, along with his family, move frequently, from city to city. After his arrival, one of his first tasks are to find an apartment close to work as he do not have a car. Usually, there is many different places to choose from, and he consider cost, location, and luxury. If one apartment has a washing machine and dryer and cost four hundred dollars a month, he prefer to rent it over another apartment which have significantly less rent located two blocks from a Laundromat. Rob's family never wants to live in an apartment on the thirteenth floor since all of them fears heights. He also try to choose an apartment with landlords recommended by former tenants.

Everybody know that it is important to find a responsible landlord. Rob and his wife loves to cook together when both is free, so he need a spacious, well equipped kitchen. Rob often also look for a place with an air conditioner because there is so many scorching days and nights in Arizona. Whenever Rob find a new apartment, all of his concerns disappears. He feel relieved and call his mother. Someone understands!

## WORKSHEET-7

Fill in the blanks with appropriate Tenses.

- a) I met him while \_\_\_\_\_(go) to his office.
  - b) They \_\_\_\_ (live) in this place since 1970.
  - c) The train\_\_\_\_\_ (leave) before I reached the station.
  - d) I wish I\_\_\_ (be) a bird!
  - e) Your letter\_\_\_\_\_ (reach) me yesterday.
  - f) He \_\_\_\_\_(make) a doll now.
  - g) He\_\_\_\_\_ (work) here since 2011.
  - h) I \_\_\_\_ (write) the letter last night.
  - i)He\_\_\_\_\_ (sit) in the library when I saw him. J)
- If I were you, I \_\_\_\_\_(not, do) it.

## WORKSHEET-8

B.Put the verbs in brackets into the simple present tense or the present continuous tense :

- 1.Suman generally (wear) a white suit but today she (wear) a blue one.
2. Sugar (cost) sixteen rupees a kilo.
3. Rain (fall) from the clouds.
4. Crime never (pay).
5. The workers (repair) the road at present.
6. People (wear) new clothes at Diwali.
7. My children generally (go) to their uncle during the holidays. But they (not go) this summer as we all (go) to Shimla.
8. I usually (drink) coffee but now I (drink) tea.

## WORKSHEET-9

### PREPOSITION

Fill in the blanks with appropriate Prepositions.

- (a) He will come here \_\_\_ a week.
- (b) I was speaking \_\_\_ a friend.
- (c) We are not interested \_\_\_ your story.
- (d) The police ran \_\_\_ the thief.
- (e) We shall be back \_\_\_ 4 o'clock.
- (f) He is \_\_\_ the way to Delhi.
- (g) The food is not \_\_\_ my taste.
- (h) She is playing \_\_\_ a violin.
- (i) I am confident \_\_\_ success.
- (j) The little girl is pleased \_\_\_ her new dress.
- (k) The examination is \_\_\_ hand.
- (l) He is \_\_\_ work now.
- (m) You must suffer \_\_\_ your misdeeds.

## WORKSHEET-10

Fill in the blanks with appropriate Determiners :

1. There isn't \_\_\_\_\_ boot-polish in this tin.
2. Please give \_\_\_\_\_ more pudding. I'm sorry but there isn't
3. You have \_\_\_\_\_ fine flowers in your garden.
4. I regret to say that there is \_\_\_\_\_ I can do in this matter. 5. Art movies are appreciated only by \_\_\_\_\_
6. My friend is \_\_\_\_\_ teacher.
7. He is : \_\_\_\_\_ European.
8. She is \_\_\_\_\_ M.L.A.
9. She is a nice lady. We like \_\_\_\_\_ behaviour. (your, her)
10. \_\_\_\_\_ bicycle is mine. (this, these)

**HINDI**

1. पाठ्यपुस्तक के किसी एक पाठ को पढ़कर उसके सार का वर्णन करते हुए एक PPT बनाइए ।
2. निम्नलिखित विषय पर अनुच्छेद लिखिए ।
  - युवा पीढ़ी पर इंटरनेट का प्रभाव
3. पत्र लेखन -
  - नित्य व्यायाम करने की सलाह देते हुए अपने छोटे भाई और बहन को पत्र लिखिए ।
4. कवि रैदास के पदों की व्याख्या अपने शब्दों में कीजिए ।
5. निम्नलिखित में से किसी एक के जीवन पर आधारित परियोजना कार्य तैयार कीजिए-
  - रैदास (रविदास)
  - रहीम
  - महादेवी वर्मा
6. अनुस्वार युक्त दस नाम लिखिए।
7. अनुनासिक युक्त दस शब्द लिखिए।

### कार्यपत्रक

**प्रश्न-1. निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए ।**

एक स्वस्थ व्यक्ति की परिभाषा कुछ शब्दों में बताना कठिन है । किसी को क्षणिक देखने भर से नहीं कहा जा सकता कि वह नितान्त स्वस्थ है या रुग्ण है । कोई व्यक्ति देखने में मोटा-ताज़ा, रूप-सौंदर्य से युक्त भले ही हो सकता है लेकिन यह जरूरी नहीं कि वह शारीरिक तौर पर हर तरह से स्वस्थ होगा । वास्तव में व्यक्ति का बाह्य रूप उसकी अंतः शक्ति को एक झलक में प्रदर्शित नहीं कर पाता । यद्यपि कभी-कभी विषाद और अंतर्द्वंद्व का भाव व्यक्ति के मुख पर झलक जाता है, उसी तरह हृदय की प्रसन्नता-छाप भी मुख पर दिखाई दे जाती है । ये दोनों प्रसन्नता और वेदना के भाव परिवर्तनशील होते हैं । इन स्थितियों में अधिकता-न्यूनता का परिवर्तन होता रहता है । वास्तव में ये वे हृदय-आवेग हैं, जो हमें हमारे बाह्य प्रभाव से प्राप्त होते हैं । इन दोनों प्रभावों का संबंध मनुष्य के स्वास्थ्य से होता है । विभिन्न प्रकार की बीमारियाँ आदमी के शरीर को क्षति तो पहुँचाती ही हैं, उसके मनोबल को भी कमज़ोर कर देती हैं । व्यक्ति का अच्छा स्वास्थ्य एक लम्बी प्रक्रिया के फलस्वरूप प्राप्त होता है । अच्छे स्वास्थ्य वाला व्यक्ति अपने दैनिक कार्य बड़ी कुशलता के साथ कर लेता है । अच्छे स्वास्थ्य वाला व्यक्ति वही होता है जिसमें अपने कार्य करने की क्षमता हो, स्फूर्ति हो, ऊर्जा हो और वह आलस्य रहित हो । ऐसा व्यक्ति अपनी कार्य

क्षमता के बल पर अपने कार्य यथासमय निपटा लेता है, उसका चिंतन सकारात्मक होता है और किसी भी काम के लिए अन्य के भरोसे नहीं रहता | इसलिए कहा जाता है कि - स्वस्थ शरीर में ही स्वस्थ मन का निवास होता है |

प्रश्न-

- (क) व्यक्ति की मुख-छवि किन आवेगों के कारण बदलती रहती है ?
- (ख) अच्छे स्वास्थ्य के क्या-क्या लाभ हैं ?
- (ग) लेखक स्वस्थ शरीर में किसका निवास मानता है ?
- (घ) स्वस्थ व्यक्ति किसे माना जाता है और क्यों ?
- (ङ) उपर्युक्त गद्यांश का उचित शीर्षक लिखिए |
- (च) स्फूर्ति का वर्ण-विच्छेद कीजिए |

प्रश्न- 2. चित्र वर्णन कीजिए |





## PUNJABI

1. ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਤੇ ਸੁੰਦਰ ਵਿਗਿਆਪਨ ਤਿਆਰ ਕਰੋ।  
ਖੁਨਦਾਨ ਕੈਂਪ  
ਮੁਫਤ ਪੰਜਾਬੀ ਸਿਖਲਾਈ ਕੈਂਪ  
ਪੁਸਤਕ ਮੇਲਾ
2. A-4 sheet ਤੇ ਵਰਗ ਪਹੇਲੀ( crossword) ਬਣਾਉ।
3. ਪੰਜ ਅਗੇਤਰ ਪੰਜ ਪਿਛੇਤਰ ਲਿਖ ਕੇ ਸੁੰਦਰ ਚਾਰਟ ਤਿਆਰ ਕਰੋ।
4. ਜਮਾਤ ਵਿੱਚ ਕੀਤੇ ਕੰਮ ਦੀ ਦੁਹਰਾਈ ਕਰੋ।

## SUBJECT: MATHEMATICS

### GENERAL INSTRUCTIONS:

- Attempt Project work on coloured A3 size sheet.
- Do the worksheet neatly on A4 size ruled sheets and submit in a folder/file.

### A) PROJECT WORK:-

- a) Make a crossword with mathematical terms on any topic of your choice.
- b) Project of Coordinate geometry:-
  1. Draw the continent specified as per roll numbers on A3 size sheet or hard board.
  2. Make coordinate axis and mark points on x-axis and y-axis.
  3. Mark any 10 countries in that continent and write their coordinates.

Roll no. 1 to 10 - Asia

Roll no. 11 to 20 - Africa

Roll no. 21 to 30 - Australia

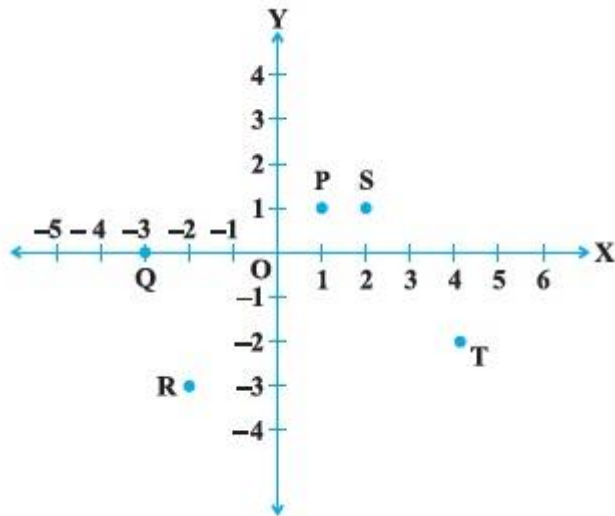
Roll no. 31 to 40 - North America

Roll no. 41 onwards - South America

### B) WORKSHEET: (To be done on A4 size ruled sheets)

1. Express each of the following as a rational number in the simplest form:  
(a) 0.12                      (b)  $0.1\bar{7}$                       (c)  $0.\underline{6}3$
2. Find one rational and one irrational number between  $\frac{1}{3}$  and  $\frac{1}{2}$ .
3. Find the decimal representation of:  
(a)  $\frac{7}{8}$                                       (b)  $\frac{8}{3}$
4. Simplify:

- (a)  $\sqrt{7} \times \sqrt{35}$       (b)  $\sqrt{162} \div \sqrt{2}$       (c)  $\sqrt{32} - \sqrt{128} + \sqrt{200}$
5. Examine whether the following numbers are rational or irrational:
- (a)  $(\sqrt{2} + 2)^2$       (b)  $\frac{6}{2\sqrt{3}}$       (c)  $(5 + \sqrt{5})(5 - \sqrt{5})$
6. Rationalise the denominator:
- (a)  $\frac{\sqrt{11} - \sqrt{5}}{\sqrt{11} + \sqrt{5}}$       (b)  $\frac{1}{3 - \sqrt{8}}$       (c)  $\frac{6}{3\sqrt{2} - 2\sqrt{3}}$
7. If  $x = 2 + \sqrt{3}$ , find the value of  $x^2 + \frac{1}{x^2}$
8. Simplify:
- (a)  $\left(\frac{-1}{27}\right)^{\frac{-2}{3}}$       (b)  $\sqrt{(81)^{-2}}$       (c)  $\left(\frac{81}{16}\right)^{\frac{-3}{4}} \times \left(\frac{25}{9}\right)^{\frac{-3}{2}}$
9. Find two rational numbers a and b if :  $\frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}} = a + \sqrt{15} b$
10. Simplify:  $\frac{3}{\sqrt{3} + 1} + \frac{5}{\sqrt{3} - 1}$
11. Which of the following points belong to x-axis: A(3, 1), B(4, 0), C(-2, 0), D(0, 3), E(-4, 0), F(1, 0) ?
12. Which of the following points belong to y-axis: P(2, 0), Q(0, 2), R(0, -3), S(-3, 0), T(2, -3), U(0, -5) ?
13. In which quadrants will the following points lie:  
A(3, 1), B(2, -3), C(-2, -1), D(-5, 2), E(6, -3) ?
14. If P(2,7) and Q(-3,6) are coordinates of two points, find:-  
i) Abscissa of P + ordinate of Q  
ii) Ordinate of Q - Abscissa of Q
15. Without plotting the points indicate the quadrant in which they will lie, if
- (i) the ordinate is 5 and abscissa is -3  
(ii) the abscissa is -5 and ordinate is -3  
(iii) the abscissa is -5 and ordinate is 3  
(iv) the ordinate is 5 and abscissa is 3
16. Write the coordinates of points P, Q, R, S, T and O from the given graph



17. Write the answer to each of the following questions:

- (i) What is the name of the horizontal and the vertical lines drawn to determine the position of any point in the Cartesian plane?
- (ii) What is the name of each part of the plane formed by these two lines?
- (iii) Write the name of the point where these two lines intersect.

18. What will be the perpendicular distance of (2,-6) from x-axis?

19. What will be the perpendicular distance of (-5,4) from y-axis?

20. What will be the value of y coordinate on x-axis?

21. A triangular park has sides 120 m, 80 m and 50 m. A gardener has to put a fence all around it and also plant grass inside. How much area does he need to plant?

22. The perimeter of a right triangle is 300m. If its sides are in the ratio 3 : 5 : 7. Find the area of the triangle.

23. Find the area of a triangle with base is 20cm and height is 10 cm.

24. Perimeter of the rhombus is 100 m and its diagonal is 40m. Find the area of rhombus.

25. Find the semi-perimeter of a triangle whose sides are 12 cm, 6 cm and 15 cm.

26. The area of an equilateral triangle is  $100\sqrt{3}$  cm<sup>2</sup>. Find the perimeter of the triangle.

27. The perimeter of a triangular field is 420 m and its sides are in the ratio 6 : 7 : 8. Find the area of the triangular field.

28. The sides of a triangle are 11 cm, 60 cm and 61 cm. Find the length of altitude to the shortest side.

29. The sides of a triangular sheet are 5 cm, 12 cm and 13 cm. Find the cost of painting the sheet on both sides at the rate of Rs 30 per cm<sup>2</sup>.

30. An isosceles triangle has perimeter 30 cm and each of the equal sides is 12 cm. Find the area of the triangle.

## **SCIENCE**

1. Write down activities in practical file with the help of PDF shared in class WhatsApp group.
2. Do the worksheets of physics, chemistry and biology given below as directed by subjects teachers.

## **CHEMISTRY**

### **Q1. Fill in the blanks:**

1. Matter is made up of small \_\_\_\_\_.
2. The forces of attraction between the particles are \_\_\_\_\_ in solids, \_\_\_\_\_ in liquids and \_\_\_\_\_ in gases.
3. \_\_\_\_\_ is the change of gaseous state directly to solid state without going through liquid state, and vice-versa.
4. Evaporation causes \_\_\_\_\_.
5. Latent heat of fusion is the amount of heat energy required to change 1 kg of solid into liquid at its \_\_\_\_\_.
6. Solid, liquid and gas are called the three \_\_\_\_\_ of matter.
7. The smell of perfume gradually spreads across a room due to \_\_\_\_\_.
8. Rapid evaporation depends on the \_\_\_\_\_ area exposed to the atmosphere.
9. As the temperature of a system increases, the pressure of the gases \_\_\_\_\_.
10. As the volume of a specific amount of gas decreases, its pressure \_\_\_\_\_.

### **Q2. State true or false:**

1. Boiling is a bulk phenomenon.
2. Evaporation is a surface phenomenon.
3. The rate of evaporation depends only on the surface area exposed to the atmosphere.
4. Latent heat of vaporization is the heat energy required to change 1 kg. of a liquid to gas at atmospheric pressure at its melting point.
5. Water at room temperature is a liquid.
6. Atoms in a liquid are farther apart than the atoms in a gas.
7. The molecules in a gas are in constant motion.
8. Gases present in air have the same pressure throughout the entire atmosphere.
9. All materials move from solid to liquid to gas as the temperature increases.
10. Because electrons have been stripped away from atoms in plasma, plasmas have a negative charge

### **Q3. Match the following:**

Quantity	Units
Temperature	Pascal
Length	Kg
Mass	M
Volume	K
Density	m <sup>3</sup>
Pressure	Kg/m <sup>3</sup>

**Q4. (i) Convert the following Kelvin temperature to degrees Celsius.**

- a. 173 K
- b. 273 K
- c. 400 K

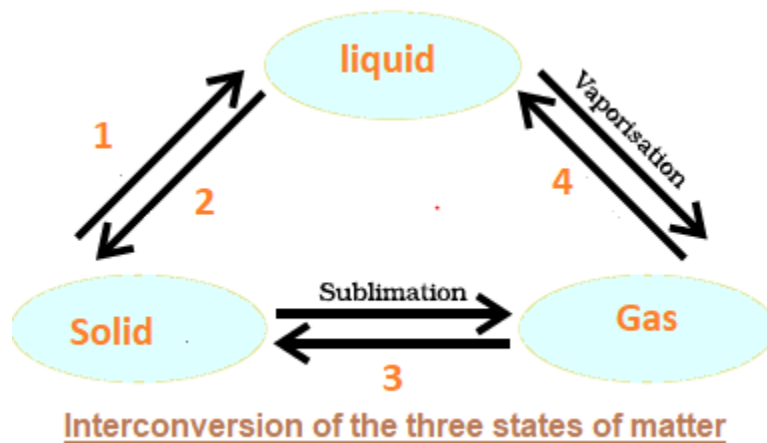
**(ii). Convert the following Celsius temperature to Kelvin temperature.**

- a. -73 ° C
- b. -23 ° C
- c. 100 ° C

**Formula for conversion is:**

$$^{\circ}\text{Celsius} = \text{K} - 273$$

**Q5. Write the terms for numbers in the below figure**



## **PHYSICS**

**MCQ's:**

1. If a body is moving at constant speed in a circular path, its
  - (a) Velocity is constant and its acceleration is zero
  - (b) Velocity and acceleration are both changing direction only
  - (c) Velocity and acceleration are both increasing
  - (d) Velocity is constant and acceleration is changing direction

2. A graph is plotted showing the velocity of a car as a function of time. If the graph is a straight line, it means that
- (a) The car started at rest
  - (b) Acceleration was constant
  - (c) Acceleration was increasing
  - (d) Velocity was constant
3. If a car is traveling north on a straight road and its brakes are applied, it will
- (a) Have no acceleration
  - (b) Accelerate to the south
  - (c) Accelerate to the north
  - (d) Accelerate either east or west
4. The acceleration of a car that speeds up from 12 meters per second to 30 meters per second in 15 seconds-
- (a)  $2.4 \text{ m/s}^2$
  - (b)  $1.2 \text{ m/s}^2$
  - (c)  $2 \text{ m/s}^2$
  - (d)  $5.2 \text{ m/s}^2$
5. Which of the following can sometimes be 'zero' for a moving body?
- (a) Average velocity
  - (b) Distance travelled
  - (c) Average speed
  - (d) Displacement

**FILL IN THE BLANKS:**

1. If a car starts at rest and accelerates uniformly, the distance it travels is proportional to the ..... of the time it travels/
2. The speedometer of a car measures its ..... speed.
3. The slope of x-t graph gives the .....of motion.
4. Area below v-t graph is a measure of .....
5. If a car is going northward and the driver jams on its brakes, the direction of its acceleration is .....

**SHORT QUESTIONS:**

- 1 (a) Differentiate between uniform linear and uniform circular motion

- (b) Write any four examples of uniform circular motion.
- (c) Is uniform circular motion accelerated motion?
- 2 (a) Define average speed.  
(b) A bus travels a distance of 120 km with a speed of 40 km/h and returns with a speed of 30 km/h  
Calculate the average speed for the entire journey.
- 3 Define uniform and non- uniform motion. Write one example for each.
- 4 What does the odometer of an automobile measure? Which of the following is moving faster? Justify your answer.  
(i) A scooter moving with a speed of 300 m per 1 minute.  
(ii) A car moving with a speed of 36 km per hour.
- 5 (a) Differentiate between speed and velocity.  
(b) When is a body said to have uniform velocity?  
(c) How can we describe the position of an object?  
Illustrate with suitable example.
- 6 Velocity-time graph for the motion of an object in a straight path is a straight line parallel to the time axis.  
(a) Identify the nature of motion of the body.  
(b) Find the acceleration of the body.  
(c) Draw the shape of distance-time graph for this type of motion.
- 7 What does the path of an object look like when it is in uniform motion?
- 8 (a) Define uniform acceleration of a body moving with uniform velocity?  
(b) A particle moves over two quarters of a circle of radius  $r$ . What is the magnitude of its displacement?
- 9 Which of the following is true for displacement?  
(a) It cannot be zero.  
(b) Its magnitude is greater than the distance travelled by the object.
- 10 An object has moved through a distance. Can it have zero displacement? If yes, support your answer with an example.

## Biology

### A. Give reasons, why.

1. Raisins and dry apricots swell up when placed in a bowl containing water for sometime.
2. Chromatin, chromatid and chromosomes are related to each other.
3. Lysosomes are known as ' scavengers of the cells'.
4. Plant cells possess large sized vacuole.

5. Roots of plants have mostly leucoplasts in them than chloroplasts.

## B. Name the organelles which show the analogy written as under.

1. Transporting channels of the cells.
2. Digestive bag of the cell.
3. Storage sacs of the cells.
4. Control room of the cell.
5. Kitchen of the cell.
6. Powerhouse of the cell.
7. Packing & dispatching unit of the cell.

## C. Multiple choice questions.

1. Select the odd one out
  - a. Membranes are made of organic molecules like proteins and lipids.
  - b. Molecules soluble in organic solvents can easily pass through membranes.
  - c. Plasma membranes contain chitin sugar in plants.
  - d. Movement of water across a semipermeable membrane is affected by the amount of substances dissolved in it.
2. Cell organelles without a cell membrane are
  - a. Nucleus
  - b. Chloroplasts
  - c. Ribosomes
  - d. Golgi apparatus
3. The proteins essential for building the cell membrane are manufactured by
  - a. Rough endoplasmic reticulum
  - b. Plasma membrane
  - c. Mitochondria
  - d. Golgi apparatus
4. Silver nitrate solution is used to study
  - a. Endoplasmic reticulum
  - b. Nucleus
  - c. Golgi apparatus
  - d. Mitochondria
5. Plasmolysis in a plant cell is defined as
  - a. breakdown of plasma membrane in hypotonic medium
  - b. Shrinkage of cytoplasm in hypertonic medium
  - c. Shrinking of nucleoplasm
  - d. None of them



6. Amoeba acquires its food through this process
- exocytosis
  - endocytosis
  - plasmolysis
  - Both a & b
7. Cell arises from pre-existing cell was stated by
- Haeckel
  - Virchow
  - Hooke
  - Schleiden
8. When you keep raisins in hypotonic solution, endosmosis occurs that continues till
- cells are fully turgid
  - cells burst
  - two hours
  - You keep them in solution
9. The stain used to make temporary mount of human cheek cells
- Safranin
  - Methylene blue
  - Xylene
  - Iodine
10. These contain their own DNA and ribosomes
- Mitochondria
  - Golgi apparatus
  - Plastids
  - a & c

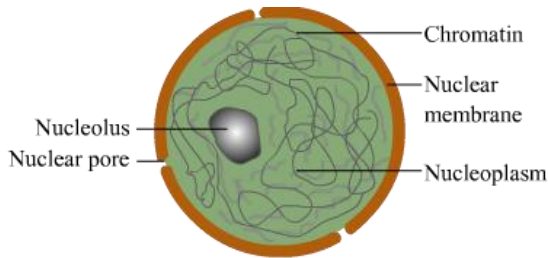
## D. Higher order Thinking Skills.

1 . A person with swollen gums rinses his mouth with lukewarm salt water and swelling of his gums decreases. This is because

- The gums absorb the salt water solution.
- The salt water solution lowers the temperature of the water in the gums.
- The salt in the solution moves against the concentration gradient.
- The water in the gums moves out due to high concentration of salt in the solution.

2. Ritika observed onion peel cells in the lab and could view the cell wall, cytoplasm and nucleus clearly. Suddenly her friend spilled a few drops of salty water on the slide having onion peel cells. She observes some changes in the cells after sometime

- What changes would have been observed by Ritika?
- Name the process that caused the changes in the cells.
- Would there be similar changes observed ,if she had prepared a slide of cheek cells?



**Structure of a Nucleus**

3. Look at the diagram carefully

- a. Which part of the above diagram can carry the 'hereditary material'?
- b. Who discovered the nucleus for the first time?
- c. Why is it called the 'control centre' of the cell ?

4. If you are provided with some vegetables to cook, you generally add salt into the vegetables during the cooking process.

- a. What happens to the vegetables after adding salt ?
- b. Which mechanism is responsible for the changes? Explain.

5. Why does the skin of your mother's fingers shrink when she washes clothes for a long time?

- a. What is responsible for these changes?
- b. Explain the process in brief.

## **SOCIAL SCIENCE**

### **1.PROJECT WORK-DISASTER MANAGEMENT**

**Prepare a project on DISASTER MANAGEMENT on the natural disasters given below in accordance to your roll number.**

- **Earthquake (Roll No. 1-10)**
- **Cyclone (Roll No. 11-20)**
- **Floods (Roll No. 21-30)**
- **Droughts (Roll No. 31-40)**
- **Landslides (Roll No. 41 ONWARDS)**

**The project should cover the following points:**

- 1. About natural disasters**
- 2. Introduction to the 'given natural disaster'**
- 3. Causes**
- 4. Means of forecasting disaster**
- 5. Do's and Don't**

## **6. Prevention and Mitigation Measures**

### **Guidelines**

- 1. Project should be handwritten**
- 2. It should be well presented, researched, and pictorial.**
- 3. Use A4 size sheets white/coloured.**
- 4. It should comprise of Acknowledgement, Index, and Bibliography.**
- 5. Paste pictures, wherever possible.**
- 6. The project should be presented in a file.**

### **2. Design a cover page and prepare ‘My own Atlas’ on the following topics:**

**(i) POLITICAL MAP 1 (MOUNTAIN RANGES)**

The Karakoram, The Zasker, The Shivalik, The Aravalli, The Vindhya, The Satpura

**(ii) POLITICAL MAP 2 (MOUNTAIN PEAKS)**

K2, Kanchan Junga, Anai Mudi

**(iii) POLITICAL MAP 3 (PLATEAU)**

Deccan Plateau, Malwa Plateau, Chota Nagpur Plateau

**REVISE THE CHAPTERS COMING IN PERIODIC TEST - 1**

**COMPLETE YOUR NOTES IN CLASS WORK REGISTER OF THE CHAPTERS DONE**

**NOTE:- PRINTOUT OF**

**ACKNOWLEDGEMENT & PROJECT EVALUATION  
PERFORMA MUST BE TAKEN AND  
ATTACHED WITH PROJECT FILE**

## **ACKNOWLEDGEMENT**

This is to acknowledge all those without whom this project would not have been possible. Firstly, I wish to thank our Social Science teacher \_\_\_\_\_ who gave her immense support and made us understand how to make this project. Without her guidance and support, this project would not have been completed. I would like to express my special thanks of gratitude to our principal (Name of the principal) who gave me the golden opportunity to do this wonderful project on the topic (Write the topic name), which also helped me in doing a lot of Research and enhance my knowledge in this area. Secondly I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame. The subject matter contained in the project has been widely taken from the internet. The statistical data has been extracted from \_\_\_\_\_.

**FULL NAME OF THE STUDENT:-**

**CLASS & SECTION:-**

## **PROJECT EVALUATION PERFORMA**

**NAME OF THE SCHOOL: SRI GURU NANAK PUBLIC SCHOOL,**

**ADARSH NAGAR, DELHI**

**NAME OF THE STUDENT: \_\_\_\_\_**

**CLASS: IX SEC: \_\_\_\_\_**

**ROLL NO.: \_\_\_\_\_**

**TEACHER'S REMARKS**

<b>S.NO</b>	<b>ASPECTS</b>	<b>MARKS</b>
<b>1</b>	<b>Content accuracy, originality and analysis</b>	<b>4</b>
<b>2</b>	<b>Presentation and creativity</b>	<b>4</b>
<b>3</b>	<b>Viva Voce</b>	<b>2</b>

**Date of Submission:** \_\_\_\_\_

**Overall Remarks:** \_\_\_\_\_

**Teacher's Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

SKILL SUBJECT: INFORMATION TECHNOLOGY(402)

#### ACTIVITY

1. Create a document in Writer and write about the information about Andaman and Nicobar Island  
Insert relevant pictures related to each from the file.  
Use of formatting, style , border, change case and water mark.
2. Create a diagram on 'Anatomy of Flower' in Open Office Draw and insert the picture in Writer by dragging.
3. Make a colorful collage on Food cuisine of Andaman and Nicobar Island by downloading and inserting images .
4. Design a vising card, insert a small logo of your choice and furnish details such as name, designation and address with proper formatting features.

Apply the following features/effects

- Image filters
- Image transparency
- Grouping of images