



SD DAV PUBLIC SCHOOL, JAMTARA

Summer Vacation Assignment (2025-26)

Class: - IX

SUBJECT: ENGLISH

1. Read the following passage carefully

I was overwhelmed with gratuitous advice. Well-meaning yet ignorant friends thrust their opinions into unwilling ears. The majority of them said I couldn't do without meat in the cold climate. I would catch consumption. Mr Z went to England and caught it on account of his foolhardiness. Others said I might do without flesh but without wine I could not move. I would be numbed with cold. One went so far as to advise me to take eight bottles of whisky, for I should want them after leaving Aden. Another wanted me to smoke, for his friend was obliged to smoke in England. Even medical men, those who had been to England told the same tale. I replied that I would try my best to avoid all these things, but if they were found to be absolutely necessary I did not know what to do. I may here mention that my aversion to meat was not so strong then as it is now. I was even betrayed into taking meat about six or seven times at the period when I allowed my friends to think for me. But in the steamer, my ideas began to change. I thought I should not take meat on any account. My mother, before consenting to my departure, had exacted a promise from me not to take meat. So, I was bound not to take it, if only for the sake of the promise. The fellow passengers in the steamer began to advise us (the friend who was with me and myself) to try it.

Answer the following questions based on the above passage

A: The advice the narrator received from his friends was NOT

- (i) well-meaning (ii) uncalled for
- (iii) sought after (iv) given by friends

B: When was the narrator offered the advice?

- (i) when he was leaving for England
- (ii) when he was in Aden
- (iii) when he had started eating meat
- (iv) when he was on the steamer

C: Why did the narrator's friends advise him to take meat?

- (i) everyone in England ate meat
- (ii) meat would cause consumption
- (iii) meat-eating would keep him healthy
- (iv) he would find it tasty

D: The narrator was reluctant to eat flesh as

- (i) he had never eaten it before
- (ii) he did not like the taste
- (iii) it was not available on the steamer
- (iv) he had promised his mother he would not do so

E: What does the term consumption here refer to?

- (i) eat (ii) give up
- (iii) a disease (iv) cold

2. Read the following passage carefully.

Forest fire is a major cause of injury and loss to forests. With the population increase, the frequency and subsequent damage due to forest fires is increasing day by day. The impact of the fire is diverse on the forest ecosystem. Besides directly damaging the forest trees, the fire also adversely affects forest regeneration, microclimate, soil erosion and wildlife etc.

Very heavy fire, frequent forest fire and occasional fire damage is noticed only over 0.84 percent, 0.14 percent, 5.16 percent and 43.06 percent of the forest areas, respectively. Only 6.17 percent of the Indian forests are subjected to severe fire damage annually. In absolute terms, out of around 63 million hectares of forests, an area of around 3.73 million hectares can be presumed to be affected by fires annually.

In most of the cases, the forest fire causes retrogression of forest vegetation. Forest fire is one of the major degenerating factors, which extensively damages the growing stock and its generations and makes the area vulnerable to erosion. It has wide-ranging adverse ecological, economic and social implications.

Forest fires in India are generally ground fires. About 35 million hectares of forest area is affected by fires annually. About 95 percent of the forest fires are caused by human beings, especially to promote new flush of grasses, collection of minor forest produce or to prepare land for shifting cultivation. While statistical data on fire loss in India are very weak, it is estimated that the proportion of the forest areas prone to forest fire annually ranges from 33% to over 90% in different states.

Answer the following questions based on the above passage.

(i) Which of the following is not true as per the passage?

- (a) Most deforestation occurs due to forest fires.
- (b) The frequency of forest fires has increased rapidly.
- (c) The ecosystem is heavily damaged due to forest fires.
- (d) None of the above

(ii) Select the option that is true for the Assertion and Reason given below.

Assertion 6.07% annually Indian forests are subjected to severe forest fires.

Reason Only 5% of forest fires are caused by human beings.

- (a) Both the Assertion and the Reason are true, and the Reason is the correct explanation of the Assertion.
- (b) Both the Assertion and the Reason are true, but the Reason is not the correct explanation of the Assertion.
- (c) The Assertion is true, but the Reason is false.
- (d) The Assertion is false, but the Reason is true.

iii) What is the consequence of the increase of population in India?

(iv) What does a forest fire affect in an unfavourable way?

(v) Read the prompt and fill in the blank with the correct option from the given bracket.

Forest fire (indirectly/directly) damages the trees in the forest.

vi) How do human beings contribute to forest fires?

(vii) Complete the sentence suitably.

The word 'regeneration' in Paragraph 1 is the opposite of

(viii) How much is the estimated forest cover in India?

English Literature

Answer the following questions.

1. According to the poem, how does the poet feel about his or her decision in the end?
(The Road Not Taken)

2. Everything suddenly looked black". Why does Evelyn say so?(The Sound of Music)

3. Why did the grandfather hide Toto for some time when he brought him home?(The Adventure of Toto)

4. Why did Tommy call Margie 'stupid'? What does this tell you about his character?(The Fun They Had)

5. Parents were in a hurry to reach the fair but the child was delaying them. How?(The Lost Child)

Project Work

Prepare at least 10-15 rules on the Topic of Subject-Verb Agreement from English Grammar in a Channel file.

SUBJECT: HINDI

निम्नलिखित प्रश्नों के उत्तर लिखें -

1. हीरा और मोती दोनों बैलों की विशेषताओं को लिखें।
2. 'दो बैलों की कथा' किस प्रकार भारतीय स्वतंत्रता संग्राम के साथ जुड़ा हुआ है? स्पष्ट करें।
3. किसी क्षेत्र की यात्रा करने के क्या-क्या लाभ होते हैं?
4. उन दिनों तिब्बत की सामाजिक, आर्थिक और राजनीतिक स्थिति कैसी थी?
5. कबीर की भक्ति भावना का परिचय दें।
6. आपको कबीर का जो दोहा सबसे अधिक पसंद है उसे लिखकर उसका कारण स्पष्ट करें।
7. ललदयद का कौन सा वाक्य आपको सबसे अधिक पसंद है और क्यों?
8. ललदयद की आध्यात्मिक विचारधारा को स्पष्ट करें।
9. 10-10 उपसर्ग और प्रत्यय जोड़कर चार-चार शब्द लिखिए।

परियोजना कार्य

1. किसी ज्वलंत मुद्दा को रिपोर्टाज शैली में लिखें।
2. गर्मी की छुट्टी के दौरान अपने किए गए किसी यात्रा का संपूर्ण वृत्तांत लिखें।

SUBJECT: SANSKRIT

१.मणिका---प्रथमःद्वितीयःचपाठात्स्वयमेव प्रश्नान् उत्तरान्चनिर्मिष्यन्ति।

नोट--येप्रश्नाःपाठ्य-पुस्तके(मणिका)नसन्ति।

प्रश्न-प्रारूपः(question pattern)

१.एकपदेन

२.पूर्णवाक्येन

३.आषिक-कार्यम्(व्याकरणम्)

(वाक्यंलिखित्वाकर्ता,क्रिया,विशेष्य-विशेषण,पर्यायपदम् विलोमपदम्)

४.प्रत्ययः--(धातु+प्रत्यय)५.संधि-(संधि-विच्छेद)

६.विंशतिशब्दार्थाः(१०+१०)

२.परियोजनाकार्यम्---द्वितीयःपाठः--'पाथेयम् 'सर्वान् श्रलोकान् दीर्घ अक्षरैः(बड़े अक्षरों में)

भिन्न-भिन्न वर्णैः(अलग-अलग रंगों से)सुन्दरं,शुद्धं च सज्जीकृत्य

(चार्ट पेपर) पर।.....लिखित्वा आनेष्यन्ति।

SUBJECT: MATHEMATICS

Multiple Choice Questions

1. The product of any two irrational numbers is:
(A) always an irrational number
(B) always a rational number
(C) always an integer
(D) sometimes rational, sometimes irrational
2. The value of $1.999\dots$ in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$, is:
(A) $\frac{19}{10}$ (B) $\frac{1999}{1000}$ (C) 2 (D) $\frac{1}{9}$
3. $2\sqrt{3} \times \sqrt{3} + 1$ is equal to :
(A) $2\sqrt{9}$ (B) 6 (C) 7 (D) $4\sqrt{6}$
4. Between two rational numbers:
(A) there is no rational number
(B) there is exactly one rational number
(C) there are infinitely many rational numbers
(D) there are only rational numbers and no irrational numbers
5. which of the following is equal to x?

- (A) $x^{\frac{12}{7}} - x^{\frac{5}{7}}$ (B) $^{12}\sqrt{(x^4)^{\frac{1}{3}}}$ (C) $(\sqrt{x^3})^{\frac{2}{3}}$ (D) $x^{\frac{12}{7}} \times x^{\frac{7}{12}}$

Short Answer Type Questions

6. Find the three rational numbers between:
(i) -1 and -2 (ii) 0.1 and 0.11 (iii) $\frac{5}{7}$ and $\frac{6}{7}$ (iv) $\frac{1}{4}$ and $\frac{1}{5}$
7. Represent geometrically the following numbers on the number line:
(i) $\sqrt{4.5}$ (ii) $\sqrt{5.6}$ (iii) $\sqrt{8.1}$ (iv) $\sqrt{2.3}$
8. Simplify $16^{\frac{-1}{4}} \times \sqrt[4]{16}$
9. Find the value of x in $3 + 2^x = (64)^{\frac{1}{2}} + (27)^{\frac{1}{3}}$.
10. If $a = -2$, $b = -1$, then find $a^{-b} - b^a$.

Long Answer Type Questions

11. If $x = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ and $y = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$, find the value of $x^2 + y^2 + xy$.

12. If $x = \frac{2-\sqrt{5}}{2+\sqrt{5}}$ and $y = \frac{2+\sqrt{5}}{2-\sqrt{5}}$, find the value of $x^2 - y^2$.

13. Determine rational numbers p and q if $\frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-\sqrt{5}}{7+\sqrt{5}} = p - 7\sqrt{5}q$.

14. Simplify: $\frac{6}{2\sqrt{3}-\sqrt{6}} + \frac{\sqrt{6}}{\sqrt{3}+\sqrt{2}} - \frac{4\sqrt{3}}{\sqrt{6}-\sqrt{2}}$.

15. Simplify: $\frac{3\sqrt{2}}{\sqrt{6}-\sqrt{3}} + \frac{2\sqrt{3}}{\sqrt{6}+2} - \frac{4\sqrt{3}}{\sqrt{6}-\sqrt{2}}$.

16. Show that: $\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} = 5$

17. If: $x = \frac{\sqrt{p+q} + \sqrt{p-q}}{\sqrt{p+q} - \sqrt{p-q}}$, then find the value of $qx^2 - 2px + q$.

18. Show that: $\frac{x^{-1}+y^{-1}}{x^{-1}} + \frac{x^{-1}-y^{-1}}{x^{-1}} = \frac{x^2+y^2}{xy}$

19. If $x = 2 + 3\sqrt{2}$, then find the value of $\left(x + \frac{14}{x}\right)$.

20. Find the value of a and b in the following:

(i) $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a - b\sqrt{3}$

(ii) $\frac{\sqrt{2}+\sqrt{3}}{3\sqrt{2}-2\sqrt{3}} = a + b\sqrt{6}$

Write any three activities given in CBSE Class 9 Maths lab manual.

SUBJECT: SCIENCE

PHYSICS

Q1) Derive mathematically the equation of motion for an object under uniform acceleration, $s = ut + \frac{1}{2}at^2$.

Q2) A car starts from rest and accelerates uniformly to a speed of 72 km/h in 10 s. Calculate its acceleration and distance covered.

Q3) What is the difference between speed and velocity? Provide examples to illustrate your answer.

Q4) Derive mathematically the equation $v^2 = u^2 + 2as$, where v is the final velocity, u is the initial velocity, a is the acceleration, and s is the displacement.

Q5) Write the difference between distance and displacement.

Q6) An athlete completes one round of a circular track of a diameter of 200 m in 40 s. What will be the distance covered and the displacement at the end of 2 min 20s?

Q7) Joseph jogs from one end A to other end B of a straight 300m road in 2 minutes 30 seconds and then turns around and jogs 100m back to point C in another 1 minute. What are Joseph's average speeds and velocities in Jogging (a) from A to B and (b) from A to C?

PROJECT WORK :- Write the different types of motions and draw the necessary diagram on chart paper.

CHEMISTRY

1. Convert 573K into Celsius and 250 degree Celsius into Kelvin.
2. Why does temperature does not change during the change of state?
3. Define Latent heat of fusion and latent heat of vaporization.
4. Define Sublimation and Deposition processes with examples.
5. Draw a diagram to show that States of Matter are interconvertible.
6. Give reason-

- i) Why is the water kept in an earthen pot becomes cool during Summer?
- ii) Why do we wear cotton clothes in summer?
- iii) How does a desert cooler cool better on a hot dry day?

BIOLOGY

Project work

Make a model of a plant or animal cell, focusing on the structure and function of its organelles.

Answer the following Questions

1. Name the organelle of the cell which has membrane bound sac filled with powerful digestive enzymes. Write its any one function in the cells ?
2. Name the cell organelle, other than mitochondria, that has its own DNA and Ribosomes.
3. Why do egg shells dissolve in dilute hydrochloric acid ?
4. Where do the lipids and proteins constituting the cell membrane get Synthesized?
5. What is meant by Membrane biogenesis ?
6. Define the term Osmosis .

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1. Mention any two functions of Golgi apparatus.
 2. What is meant by Endocytosis ? Name an organism which used this process.
 3. Why is plasma membrane called semi-permeable membrane ? Write one function of it.
 4. (a) What would happen to the life of a cell if there was no Golgi apparatus ?
(b) Which cell organelle detoxifies poisons and drugs in the liver of vertebrates ?
 5. (a) What is lacking in a Virus which makes it dependent on a living cell to multiply ?
(b) Write full name of RER and SER.
 6. (a) In which form does the mitochondria release energy ? Write its full form.
(b) The inner membrane of mitochondria is deeply folded : What is the advantage of these folds ?
 7. Write two differences between plasma membrane and cell wall ?
 8. Give reasons for the following :
(a) Mitochondria are known as power house of the cell.
(b) Mitochondria are able to make their own proteins.
 9. What will happen to a plant cell if it is kept in a
(i) hypotonic solution (ii) hypertonic solution

SUBJECT: SOCIAL SCIENCE

HISTORY

ANSWER THE FOLLOWING QUESTIONS

1. Describe the circumstances leading to the Outbreak of the French Revolution.
2. Which group of the French Society benefitted from the French Revolution?
3. Describe which group of the French Society was forced to relinquish the power.
4. Which section of the French Society would have been disappointed with the outcome of the French Revolution?
5. Explain the legacy of the French Revolution for the people of the world during the 19th and 20th centuries.
6. Draw up a list of the democratic rights we enjoy today whose origins could be traced to the French Revolution.
7. Would you agree with the view that the message of universal rights was beset with contradiction?

8. How would you explain the rise of Napoleon?
9. Describe the growing middle class of French society.
10. Who was Maximilian Robespierre? Why is his rule referred as the Reign of Terror?

PROJECT WORK

Find out more about any one of the revolutionary figures you have read about in the chapter the French Revolution. Write a short biography of this person in a scrap book.

ECONOMICS

Short Answer Questions

1. What is the main occupation of the people in Palampur?
2. Describe the farming system in Palampur.
3. What are the different types of laborers found in Palampur?
4. How do the villagers of Palampur arrange for electricity?
5. What are the problems faced by the farmers in Palampur?

Long Answer Questions

1. Describe the story of village Palampur and its economic activities.
2. Explain the factors of production used in farming in Palampur.
3. Discuss the role of capital in the development of Palampur.
4. How do the people of Palampur manage their resources?

Multiple Choice Questions

1. What is the main source of irrigation in Palampur?
 - a) Canal
 - b) Well
 - c) River
 - d) Rain
2. What type of labor is commonly found in Palampur?
 - a) Skilled labor
 - b) Unskilled labor
 - c) Both (a) and (b)
 - d) None of the above

Case Study-Based Questions

1. Suppose you are a farmer in Palampur, and you need to decide which crop to grow. What factors would you consider, and why?
2. Analyze the impact of the green revolution on the farmers of Palampur.

These questions cover various aspects of the chapter and can help assess understanding of the topic.

GEOGRAPHY

1. Write all questions and answers of chapter 01 and 02 in copy.

2. Draw Map Skill

On an outline map of India show all map skills of chapter 01, 02 and 03.

3. Also complete project activity work of chapter 01, 02 and 03.

4. Draw or show all maps of the chapter 01, 02 and 03 in C.W copy.

5. Project Work

On an outline map of India show all physiological division of India (chapter 2 or page no. 9)

OR

Major rivers of India (chapter 3 page no. 19)

CIVICS

1. What does the true democracy say?
2. How can you say that people did not have any choice in democratic Mexico?
3. Give any one merit and one demerit of democracy.
4. How President Mugabe changed the Constitution of Zimbabwe?
5. Why modern democracies are 'representative democracies'?
6. What is the role of free and fair elections in a democracy?
7. How does democracy provide a platform to deal with differences and conflicts.
8. Why are China, Estonia and Saudi Arabia not truly democratic Countries. State one reason for each one of them.
9. "Elections in China do not represent people's verdict". Explain.
10. Explain the dirty tricks used by PRI to win elections in Mexico.

SUBJECT: AI

Q1. Write all the Questions with answer in a Practical file or Science Practical copy

(i) Write the output of the following codes given below:

(a) Website = "xyz.com"
print(Website)

(b) Website = "xyz.com"
print(Website)
Website = "abc.com"
print(Website)

(c) a,b,c=5, 3.2, "Hello"
print(a)

```
print(b)
print(c)
```

```
(d) x=y=z= "Same"
    print(x)
    print(y)
    print(z)
```

```
(e) a = 20 b = "Apples"
    print(str(a)+ b)
```

(ii) Write the python code with output for the questions given below:

- (a) To take length and breadth as input and calculate Area and Perimeter of a rectangle
- (b) To take 3 sides of a triangle and calculate Area of a triangle
- (c) Enter 3 subject marks and calculate average marks.
- (d) Enter length, breadth and height and calculate surface area and volume of a cuboid .
- (e) Enter the side of a square and calculate its area and perimeter
- (f) Enter a number and calculate its square and cube.
- (g) Enter distance in Kilometer and convert it to meter and cm.
- (h) Enter temperature in degree Celsius and convert it into Fahrenheit.

(iii) Find the error and rewrite the code again by underlining all the corrections made.

(a) A=10	(b) a=10
B=20	B=20
C=a+b	C=a/b
print(C	Print (c)