



Sir Padampat Singhania School, Kota

Holiday Homework

Session: 2019-20

Class – IX

English

1. Compose a creative, original write up for your school magazine.
2. Read a book of your choice and write a review.
3. Read the following clues and write a story; give a suitable title and moral of the story.

Mr. Agarwal a wealthy businessman

- Thief entered – Mr. Agarwal thanked – to give company – birthday – gave him good food and drinks – gave a purse of silver coins – business ruined – Mr. Agarwal became poor – 50th birthday – alone – no food & drinks – a man entered – recognized – the old thief – came with fruits, sweets and drinks – and a bag full of money.

Hindi

विवाह-समारोह में दिखावेबाज संस्कृति के बारे में दो मित्रों के संवाद को लिखें।

Social Science

Geography – Write a note on black hole experiment explaining big band theory and silk route.

Political Science – Project on Lok Sabha elections 2019.

* Stick relevant pictures.

Economics - * Pictorial representation of – Drawbacks of modern farming method.

* Write note on – Rising importance of organic food.

Worksheet

History: French revolution

Answer the following questions.

1. What was Bastille? Why was it hated by all
2. What was the old regime?
3. What was Marseillaise? Who composed it? When was it sung for the first time?
4. What was Estates General?
5. State the events that led to the formation of the national assembly.
6. Why did members of the third estate walk out of the Assembly of the Estates General called by Louis XVI on May 5, 1789?
7. How did France become a constitutional monarchy?
8. Who were Jacobins what was their role in emergence of France as a republic
9. How did storming of the Bastille become the main cause of the French revolution?
10. Analyse the main features of the French constitution drafted in 1791.
11. Describe the triangular slave trade that was carried on during the 18th and 19th centuries.
12. What was the convention? Describe its role in France.
13. Analyse the role of Jacobins during the French revolution.
14. Which period in French history is known as reign of terror? Give reasons.
15. Why were women disappointed by the constitution of 1791 in France?
16. Evaluate the condition of women in France before and after the revolution.
17. How was slavery abolished in France

18. Explain the rise of Napoleon. Mention the laws enforced by Napoleon to modernize France.

Worksheet

Geography: Physical features of India

I. Define the following

- 1) Pass. 2) Glacier 3) Plateau. 4) Plate tectonics. 5) Pangaea
6) Strait 7) Gulf 8) bay. 9) Lagoon 10) Estuaries 11). Delta

II. Answer the following.

- 1) Explain the plate boundaries
 - a) Divergent boundary
 - b) Convergent boundary
 - c) Transform boundary
- 2) How did the Himalayas come into being?
- 3). 'The land of India displays great physical variation.' Explain with example.
- 4) Describe distinguishing features of Himachal Himadri and Shivalik.

Worksheet

Economics: The Story of village Palampur

- Q1. What is production? Give an example.
- Q2. What is the aim of production?
- Q3. What are the factors of production?
- Q4. What is the most abundant factor of production in India?
- Q5. What is meant by yield?
- Q6. Which term is used for production for self consumption?
- Q7. Which is the main reason for growing three different crops in a year in Palampur?
- Q8. Scientific reports indicate that the modern farming methods have overused the land. Explain by giving examples.
- Q9. How did the introduction of Green Revolution affect the cost of cultivation?
- Q10. Mention the standard unit for measuring the area of land.
- Q11. What are the limitations of the Green Revolution?
- Q12. Give three reasons why small farmers have to arrange capital by borrowing.
- Q13. Explain any four efforts which can be made to increase non- farming production activities in villages.
- Q14. Explain the basic requirements for the production of goods and services. Which one is the most important?
- Q15. Distinguish between Fixed, Working and Human capital.
- Q16. How is land distributed amongst the farmers of Palampur? Explain.
- Q17. Highlight the basic constraints in raising production from a Farm.
- Q18. Why is it important to develop irrigation facilities? Explain.
- Q19. Compare organic farming with modern method of farming. Which one is better and why?
- Q20. The farm laborers are exploited in India. Do you agree with the statement? Justify. Suggest any two ways to protect the exploitation of farm laborers.

Science

Biology

1. To prepare a temporary mount of onion peel cells and human cheek cells. Write this activity in lab copy.
2. Ramesh notices that while cooking kheer, his mother has kept raisins in plain water. After sometime he observed that the raisins has got, swollen.
 - (a) Why did the raisins swell when kept in plain water? What term is used for this phenomenon.

(b) What will happen if these raisins are kept in concentrated sugar solution.

Physics

1. How are states of rest and motion relative?

2. Write S.I Unit of –

(i) Velocity (ii) Distance (iii) Acceleration

3. Give two uses of v-t graph.

4. Differentiate between uniform and non uniform acceleration.

5. In what situation the v-t graph shows a straight line with negative slope?

6. Which of the following is moving faster?

(a) A car moving at a speed of 36 km/h

(b) A scooter moving with a speed of 300 m per minute.

7. A particle moves 3 m North then 4 m East and finally 6 m South. Calculate displacement.

8. A train 100 m long is moving with a constant velocity of 60 km/h. Find the time it takes to cross the bridge 1 km long.

9. A car moves with a speed of 30 km/h for half an hour, 25 km/h for one hour and 40 km/h for two hour. Calculate average speed of the car.

10. The graph given below shows the position of a body at different times. Calculate speed of the body as it moves from –

(a) A to B

(b) B to C

(c) C to D

Chemistry

1. Define diffusion? Give one example each of diffusion of (a) Solid into liquid (b) gas into liquid.

2. Name the state of matter which can expand to any extent and remains homogenous even during expansion.

3. What would happen to interparticle forces of attraction when solid change into a liquid?

4. Give one example in which matter is present in plasma state.

5. Spurge is a solid. Yet we are able to compress it. Why?

Computer

Explain different categories of computers on the basis of principles of operations and configuration.

Mathematics

Activity

1. To draw square root spiral (up to $\sqrt{13}$)

2. To prepare the chart of mathematical identities.

Worksheet – Number System

1. Write three irrational numbers between $\frac{5}{2}$ and $\frac{7}{2}$.

2. Express $18.\overline{48}$ in the form p/q, $q \neq 0$

3. Represent $\sqrt{17}$ on the number line.

4. What is the rationalising factor of $2\sqrt[3]{5}$?

5. Rationalise the denominator of $\frac{1}{\sqrt{7}-\sqrt{3}}$.

6. How many rational numbers lie between $\sqrt{2}$ and $\sqrt{3}$? Find any one rational number lying between $\sqrt{2}$ and $\sqrt{3}$.

7. Find the square root of 3.6 geometrically.

8. Simplify $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt[5]{32} + \sqrt{225}$

9. If $a = \frac{4}{3-\sqrt{5}}$, find the value of $a + \frac{4}{a}$
10. If $\frac{5+\sqrt{3}}{5-\sqrt{3}} = a+b\sqrt{3}$, find rational numbers, a and b.

Topic : Polynomial

1. Find the zero of the polynomial $2z+6$.
2. Find the zero of the polynomial $p(x) = 7$, if any give reason.
3. Find the zeroes of the polynomial $2x^2 + 7x - 4$.
4. Find the remainder where $x^3 - ax^2 + 6x - a$ is divided by $x - a$.
5. Find the value of $346^2 - 345^2$.
6. By remainder theorem, find the remainder where $p(x) = 4x^3 - 3x^2 + 2x - 5$ is divided by $g(x) = 1 - 2x$.
7. Factorise the polynomials :

(a) $16x^2 + 25 - 40x$	(b) $x^4 + x^2 + 1$	(c) $27x^3 + 125y^3$
(d) $27a^3 + 8b^3 + 54a^2b + 36ab^2$	(e) $x^3 - 6x^2 + 11x - 6$	(f) $x^2 + \frac{1}{x^2} + z - 2x - \frac{2}{x}$
(g) $9x^2 + y^2 + z^2 - 6xy + 2yz - 6zx$	(h) $(x-3y)^3 + (3y-7z)^3 + (7z-x)^3$	
(i) $2\sqrt{2}a^3 + 8b^3 - 27c^3 + 18\sqrt{2}abc$	(j) $(x^2-2x)^2 - 11(x^2-2x) + 24$	
8. Find the value of $x^3 - 8y^3 - 36xy - 216$, when $x = 2y + 6$.
9. If $x + \frac{1}{x} = 7$, then find the value of $x^3 + \frac{1}{x^3}$.
10. Using factor theorem, show that $x^2 + 5x + 6$ is a factor of $x^4 + 5x^3 + 9x^2 + 15x + 18$.