

ADARSH PUBLIC SCHOOL
HOLIDAYS' ASSIGNMENT
2018-19
CLASS-IX

INSTRUCTIONS :

- Do the work in respective notebooks.
- Revise the syllabus for Pre Mid Assessment.

ENGLISH

1. Write a story in about 150-200 words with the following beginning and give a suitable title to it.
"It had been over two hours waiting for the train.
Ruhi was getting restless. Suddenly she _ _ _ _ _."
2. Write an article on the topic 'India - A Tourists' Paradise' in 100-120 words.
3. The Music society of your school is holding the 6th Inter School Musical Carnival. All the gifted voices may appear for the auditions. Write a notice in about 50 words informing the students about the same.
4. Imagine you have been selected as the captain of your school Cricket / Badminton team. Express your joy in the form of a diary entry in about 100 words.
5. Do the grammar exercises of Editing, Gap Filling and Rearrangement from the CBSE papers of year 2016-17 referring the given link – www.learncbse.in → class 9 English Communicative Set I, II, III IV SA-2.
6. Read chapter 'The sound of Music' and answer the following questions:- (Beehive)
 - a) When and how did Evelyn lose the power of hearing.
 - b) Why was Evelyn nervous while going to Royal Academy of Music?
 - c) How did Evelyn's deafness come to light?
 - d) Who helped Evelyn to continue with music? What did he do and say?
 - e) What is Evelyn's secret of success and what message does she give to achievers?
7. Read chapter 'Iswaran, the story teller' and answer the following questions (Moments)
 - a) Describe Iswaran's amazing capacity to produce vegetable etc.
 - b) How did Iswaran manage to tackle the elephant?
 - c) What destruction did the elephant cause in the town?
 - d) What did Mahendra decide after he had seen the ghost?
 - e) How did Iswaran show his usefulness to the narrator?
8. Write a brief character sketch of the following from the novel Gulliver's Travel
 - a) Gulliver
 - b) Emperor of Lilliput
 - c) Emperor of Blefescu

हिन्दी

1. निम्न विषयों पर अनुच्छेद लिखिए -
 - क. अपने लिए जिए तो क्या जिए
 - ख. दिशाहीन भारतीय युवा - पीढ़ी
 - ग. बच्चे कम, खुश रहें हरदम

2. निम्न विषयों पर संवाद लेखन कीजिए ।

क. सड़क जाम को देखते हुए दो राहगीरों के बीच संवाद

ख. खेल व पढ़ाई को लेकर माँ व रमन के बीच संवाद

ग. आधी छुट्टी के समय हिंदी की नई अध्यापिका के बारे में दो सहेलियों के मध्य वार्तालाप ।

3. विज्ञापन - लेखन कीजिए

क. ऊर्जा संरक्षण का विज्ञापन तैयार कीजिए ।

ख. 'बचपन' नाम से लड़कियों के एक एन.जी.ओ. का विज्ञापन तैयार कीजिए ।

ग. शांति आँवला केश तेल की बिक्री के लिए विज्ञापन बनाइए ।

4. निम्न विषयों पर पत्र लिखिए ।

क. जीवन में हर कदम पर आत्मविश्वास का महत्व बताते हुए छोटे भाई को पत्र ।

ख. पुरस्कार मिलने की सूचना देते हुए बड़े भाई को पत्र ।

ग. अपनी बड़ी बहन के विवाह में सम्मिलित होने के लिए अपने मित्र को पत्र लिखें ।

5. अपनी व्याकरण पुस्तक के पाठ - 2 वर्णविच्छेद से कोई भी 40 शब्दों का वर्ण विच्छेद व 20 शब्दों का संयोजन कीजिए ।

कक्षा में पढ़ाए गए पाठों को याद कीजिए ।

MATHS

Do the following questions:-

1. Express the following in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$

a) $0.1\overline{34}$

b) $1.\overline{5}$

2. Insert a rational and an irrational number between

a) $\frac{-2}{5}$ and $\frac{1}{2}$

b) $\sqrt{2}$ and $\sqrt{3}$

3. If $a = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$, $b = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$, then find the value of $a^2 + b^2$.

4. Simplify : $\frac{\sqrt{5}+\sqrt{3}}{\sqrt{80}+\sqrt{48}-\sqrt{45}-\sqrt{27}}$

5. Find a and b so that

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

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

6. Simplify : $a^x = b^y = c^z$. and $b^2 = ac$, then show that $y = \frac{2xz}{x+z}$.

7. Prove that : $\left(\frac{5^a}{5^b}\right)^{a+b} \cdot \left(\frac{5^b}{5^c}\right)^{b+c} \cdot \left(\frac{5^c}{5^a}\right)^{c+a} = 1$

8. If $\frac{9^n \times 3^2 \times (3^{-n/2})^{-2} - (27)^n}{3^{2m} \times 2^3} = \frac{1}{27}$, then prove that $m-n=1$

9. The polynomial $p(x) = x^4 - 2x^3 + 3x^2 - ax + 3a - 7$, when divided by $x+1$ leaves the remainder 19. Find the value of a. Also find the remainder when $p(x)$ is divided by $x+2$.

10. Factorise :

(a) $x^2 + 9\sqrt{3}x + 42$

(b) $2y^3 + 5y^2 + 4y + 1$

(c) $1 - 64a^3 - 12a + 48a^2$

(d) $2\sqrt{2}a^3 + 8b^3 - 27c^3 + 18\sqrt{2}abc$

(e) $(x-2y)^3 + (2y-3z)^3 + (3z-x)^3$

11. Prove that :

$$\frac{(a^2-b^2)^3+(b^2-c^2)^3+(c^2-a^2)^3}{(a-b)^3+(b-c)^3+(c-a)^3} = (a+b)(b+c)(a+c)$$

12. Prove that $\frac{(0.137)^3+(0.113)^3}{(0.137)^2-(0.137)(0.113)+(0.113)^2} = \frac{1}{4}$

13. a) If $x + y = 10$, $xy = 21$ evaluate $x^3 - y^3$.

b) If $x + y = -4$, evaluate $x^3 + y^3 - 12xy + 64$

c) If $x + \frac{1}{x} = 5$ evaluate $x^2 + \frac{1}{x^2}$

d) If $4x^2 + 25y^2 = 296$ and $xy = 10$, find value of $2x - 5y$.

e) If $a + b + c = 9$ and $ab + bc + ac = 26$, evaluate $a^2 + b^2 + c^2$.

14. a) What is the probability of a sure event?

b) What is the probability of an impossible event?

c) For an event E associated with an experiment, what is the value of $P(E)$ and $P(\text{not } E)$.

d) A dice is rolled once. How many different outcomes are possible?

15. A die is thrown 1000 times and the frequencies of for the outcomes 1,2,3,4,5 and 6 are as given on the data below:

Outcome	1	2	3	4	5	6
Frequency	180	150	158	145	176	191

Find the probability of getting each outcome Also, show that the sum of the probabilities of all outcomes is 1.

16. A card is drawn from a pack of 52 cards. Find the probability that the card drawn is

a) a black card

b) neither a red card nor a queen

c) spade or an ace

17. A black die and a white die are thrown at the same time. Write all the possible outcomes what is the probability.

a) that the sum of the numbers that turn up is 8?

b) that the sum of two numbers appearing on the top of the dice is 13?

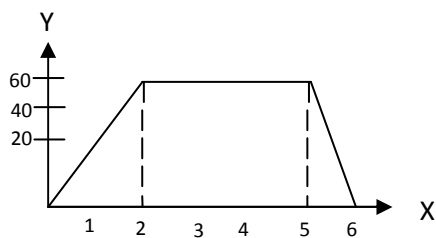
Do the following activities in the practical notebook.

18. To interpret geometrically the factors of quadratic expression : $x^2 + 7x + 12$.

SCIENCE

PHYSICS

1. The velocity – time graph for a car is given



Calculate

a) The acceleration within first two hours.

b) The total distance travelled by the car.

2. The brakes applied to a car produce an acceleration of 6ms^{-2} in the opposite direction to the motion. If the car takes 2s to stop after the application of brakes, calculate the distance it travels during this time.

3. Is uniform circular motion accelerated motion? Justify.

4. On a 120 km track, a train moves the first 30 km at a uniform speed of 30 km/h. How fast must the train travel in the next 90 km so as to have average speed 60kmh^{-1} for the entire trip.

CHEMISTRY

1. A diver is able to cut through water in a swimming pool. Explain.
2. Which of the following are matter? Justify chair, air, love, smell, hate, almonds, thought cold, cold drink, smell of perfume.
3. Give reasons:
 - a) Honey is more viscous than water.
 - b) Diffusion in a gas occurs more quickly than in liquid
 - c) We should wear cotton clothes in summer.
4. Complete the practical file work related to experiment of measuring boiling point of water and melting point of ice.

BIOLOGY

1. In brief, state what happens when:
 - a) dry apricots are left for sometimes in pure water and later transferred to sugar solution.
 - b) A red blood cell is kept in concentrated saline solution.
 - c) the plasma membrane of cell breaks down.
 - d) rheo leaves are boiled in water and then a drop of sugar syrup is put on it?
2. Describe an activity to show plasmolysis in cells.
3. Finger skin shrinks if you wash clothes for a long time. Why? Give one more example of phenomenon based on reason given by you.
4. What does DNA molecule contain? Name the functional segment of DNA. In which form is DNA present in cell when it is not dividing.
5. What special feature is observed in inner membrane of mitochondria? What is its advantage?
6. Complete the practical file work related to experiment Preparation of temporary mount of
 - a) Onion peel
 - b) Human cheek cell.

SOCIAL SCIENCE

1. Make an Illustrative and informative project on any one natural / manmade disaster. Students are advised to collect facts, figures with the help of magazines, internet and newspapers.
Guidelines:
 - i. Define Disaster and its types.
 - ii. One natural or man-made disaster with examples of recent developments.
 - iii. Emergency or Precautionary measures that should be taken.
 - iv. Use tagline, pictorial depiction, Data, Maps related to disasters.
2. On the political map of France, mark the centres of French Revolution.
3. Answer the following questions:
 - i. What was the contribution of Mira Beau and Abbe Sieyes in French Revolution.
 - ii. Name the national anthem of France. Who composed it?
 - iii. How does Jacobin Club got its name? Why men in the club wore red cap.
 - iv. Explain the given terms : Guillotine, Referendum, Republic.
 - v. Name the standard and local units of Measuring land.
 - vi. Classify the Indian states into five groups each having common frontiers with Pakistan, China, Myanmar, Bangladesh and Nepal.
 - vii. Once elected by the people, what kind of duties are needed to be performed by the office bearers?
 - viii. India has a large coastline which is advantageous. Explain.

- ix. What are the harmful effects of Chemical Fertilizers ?
- x. Which is the smallest and the largest state of India areawise ?

ART EDUCATION

1. Draw and colour any Modern Art as given in the Art book on (Page No.-86, 87).

Students can take A3 size Ivory sheet or Pastel sheet.

2. By using waste Material, make any object which is useful in our daily life.

PHYSICAL EDUCATION

Common Wealth Games were successfully hosted by India in the year 2010 with a lot of enthusiasm and sportsman spirit. Displaying the same zeal.

Make a project on Common Wealth Games including the following points.

1. History of CWG.
2. List of venues along with the years.
3. Common wealth games 2018-19

Have a Fun-Filled Vacation !