

MT. COLUMBUS SCHOOL
Dakshinpuri, New Delhi – 62

HOLIDAY HOMEWORK (WINTER VACATION)

SESSION: 2018-19

Class- IX

Activity

- Prepare a Research Project on any one of the following topics for about 15 pages on A4 size sheets-
 1. Yoga
 2. Running/Jogging
 3. Trekking/Hiking/Biking/Cycling
 4. Camping
 5. Military Training

ENGLISH

1. Edit the passage underlining the mistake present in every line by writing the correct word in the blank space.

a. My day begins on five O'clock in the morning a) _____
It has been so since the last forty years b) _____
except for the two years of which I was c) _____
very ill. I wake up at the sound of an d) _____
alarm clock bought at 1952. e) _____
From then until today, it has never f) _____
let me down. My routine, however turns topsy-turvy
in holidays when I cannot sleep for ten O'clock. I have g) _____
maintained a fairly regular routine over my working years. h) _____
When I retire on two years' time, I hope I will be i) _____
able to continue this practice.

b. One morning, the Nawab call a) _____
his minister and said him b) _____
that I wanted the length and c) _____
breadth from the earth d) _____
measured. He also feel the e) _____
need to have the stars on the f) _____
sky counted. The minister says g) _____
that the task he have been h) _____
set being impossible. i) _____

c. I entered the manager's office and sat down.
I have just lost five hundred rupees and I felt very upset. a) _____
"I leave the money in my desk," I said, b) _____
"and it is not there now". The manager was very sympathetic
but he can do nothing. "Everyone loses money these days", c) _____
he said, He start to complain about this wicked world, d) _____
but is interrupted by a knock at the door. e) _____
A girl came in and puts an envelope on his desk. f) _____
It contains five hundred rupees. "I found this g) _____
outside this gentleman's room," she said.
"Well! I say to the manager, "there is still some h) _____
honesty in this world !"

d. More of the fun and excitement in our life comes from the use for our senses. Senses open up a world which and full of sights, sounds, smells, tastes and things to touch. The sharp your senses and

the more you use it, more enjoyable each of these world becomes for you. For instant, a painter can see shades and shapes which little gifted people could not see.

e. Have you ever ate a food that might kill you? That is what thousands of Koreans have done every year when they sit down to delicious meal of fugu fish. In English, fugu is known like puffer fish.

2. In the passage given below one word has been omitted from each line. Write the missing word and the word that comes before and the word that comes after it in your answer sheet. The first one has been done for you.

Before / missing / after
walking / is / very

Walking very beneficial to us
We should get up early the morning
and go for a walk. Those are
used to for morning walks, will find it
impossible to remain bed in the
morning. For them it not so much
an exercise but pleasure.

- (a)
- (b)
- (c)
- (d)
- (e)
- (f)

Parmesh and his friends planning a trip during the summer vacations. While all of them keen to get away from the heat, none them were able to suggest which place to visit. It only draw of lots which could finally decide the matter. They decided on Ooty as it neither too far away nor too crowded. The date of departure and the duration of their stay still to be decided. The announcement of their final exam date sheet still two weeks away. Until then, each of them resolved collect information about hill station.

- a) _____
- b) _____
- c) _____
- d) _____
- e) _____
- f) _____
- g) _____
- h) _____
- i) _____

3. Fill in the blanks with the correct options.

a. It was a rainy day. Traffic (a)..... busy on the road. A (b)..... hit a car badly in the market. Five commuters were badly injured while one person (c).....on the spot. The injured persons were taken to the nearest hospital. The local people were of great help.

- (a) (i) will be (ii) was (iii) is (iv) has been
- (b) (i) speeding bus (ii) speeded bus (iii) sped up bus (iv) speed bus
- (c) (i) was died (ii) had died (iii) died (iv) is died

b. Shoes (a)..... of dust with a brush. A layer of polish (b)..... over the shoes. One should wait a little till the polish (c)..... Then shoes are brushed to shine.

- (a) (i) is cleaned (ii) will be cleaned (iii) are cleaned (iv) has to be cleaned
- (b) (i) has coated (ii) need be coated (iii) is coated (iv) will be coated
- (c) (i) was died (ii) had died (iii) died (iv) is died

4. Write a letter to the editor complaining about the parking problem in your locality.

5. Write the diary entry covering 5 days of your winter vacations.

6. Describe in about 150-200 words how you spent your winter vacations.

HINDI

निम्नलिखित प्रश्नों के उत्तर लिखें और अभ्यास करें :-

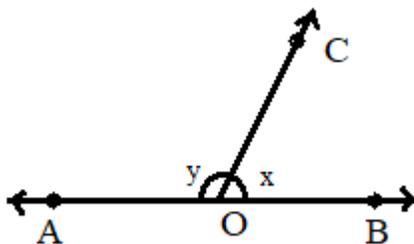
1. 'दुःख का अधिकार' शीर्षक की सार्थकता स्पष्ट करें।
2. एवरेस्ट पर चढ़ने के लिए कुल कितने कैम्प बनाए गए? उनका वर्णन करें।
3. जब अतिथि चार दिन तक नहीं गया तो लेखक के व्यवहार में क्या परिवर्तन आया?
4. मनुष्य को क्या भान होता कि वह कीचड़ का तिरस्कार न करता।
5. धर्म और ईमान के नाम पर किए जाने वाले भीषण व्यापार को कैसे रोका जा सकता है?
6. महादेव भाई को 'शुक्रतारे के समान' क्यों कहा गया है?
7. रैदास के पदों (पद 1 और 2) का अर्थ लिखें।
8. रहीम के दोहों में से कोई पाँच दोहे अर्थ सहित लिखें और याद करें।
9. 'आदमी नामा' पाठ के कठिन शब्दों को अर्थ सहित लिखें।
10. 'एक फूल की चाह' पाठ के माध्यम से कवि ने किस समस्या को उजागर किया है?
11. 'अग्निपथ पाठ' से कवि क्या संदेश देना चाहता है?
12. 'खुशबू रचते हैं हाथ' पाठ का सार अपने शब्दों में लिखें।
13. महिसागर नदी के दोनों किनारों पर कैसा दृश्य उपस्थित था, अपने शब्दों में वर्णन करें।
14. तक्षशिला में आगजनी की खबर सुनकर लेखक के मन में कौन सा विचार कौंधा?
15. कुँ में उतरकर चिट्ठियों को निकालने संबंधी साहसिक वर्णन को अपने शब्दों में लिखिए।
16. सोनजुही की लता के नीचे बनी गिल्लू की समाधि से लेखिका के मन में किस विश्वास का जन्म होता है?
17. नुक्ता का प्रयोग करते हुए कोई दस शब्द लिखें।
18. प्रति, नि, निर्, परा, अधि, अप, दुर, निर, वि और सु उपसर्गों का प्रयोग करते हुए दो-दो शब्द बनाएँ।
19. अपने किन्हीं पाँच मित्रों के नाम लिखें और उसका वर्ण-विच्छेद करें – यथा –
शिव श र् + इ + व् + अ।
20. स्वर सन्धि के सभी भेदों के नाम लिखते हुए उनके पाँच-पाँच उदाहरण लिखें।

MATHEMATICS

Solve the following questions.

1. Express 4.322222----- in the form of $\frac{p}{q}$.
2. Simplify $(5+\sqrt{5})(5-\sqrt{5})$

3. Rationalise the denominator in each of the following:
- a) $\frac{2}{3\sqrt{3}}$ b) $\frac{2\sqrt{7}}{\sqrt{11}}$
4. If both a and b are rational numbers, find the values of a and b of the following equalities:
 $\frac{3+\sqrt{7}}{3-\sqrt{7}} = a + b\sqrt{7}$
5. Find two irrational numbers lying between 0.12 and 0.13
6. If $a + b + c = 15$ and $a^2 + b^2 + c^2 = 83$, Find the value of $a^3 + b^3 + c^3 - 3abc$.
7. Factorise $x^4 + x^2 + 25$.
8. Using factor theorem, factorise the polynomial $x^3 - 6x^2 + 11x - 6$.
9. Find the measure of an angle which is complement of itself.
10. Prove that sum of all the angles of the triangle is 180°
11. Two unequal angles of the parallelogram are in the ratio 2:3. Find all its angles in degree.
12. Factorise $2x^4 + x^3 - 14x^2 - 19x - 6$
13. In a ΔABC , $\angle A = 55^\circ$, $\angle B = 40^\circ$, find the value of $\angle C$
14. In Fig OA and OB are opposite rays. If x is an acute angle. Find the type of angle y.



15. If an angle differs from its complement by 10° , find the angle
16. The perimeter of a triangular field is 450m and its sides are in ratio 13:12:5. Find the area of the triangle.
17. Find the area of the triangle formed by the points A(2,0), B(6,0), C(4,6)
18. A shot-putt is a metallic sphere of radius 4.9cm. If the density of the metal is 7.8g per cm^3 , Find the area of the shot-put.
19. Yamini and Fatima, two students of class IX of a school, together contributed Rs100 towards the Prime Minister's Relief Fund to help the earthquake victims. Write a linear equation which satisfies this data. (You may take their contributions as Rs x and Rs y). Draw the graph of the same.
20. If E, F, G and H are respectively the mid-points of the sides of a parallelogram ABCD, Show that $ar(EFGH) = \frac{1}{2} ar(ABCD)$.

SCIENCE

Answer the following questions.

- What is sound? What type of waves are sound waves in air?
- What are longitudinal and transverse waves? Explain with the help of examples.
- Define the terms 'frequency', 'wavelength' and 'velocity' of a sound wave. What is the relation between them?
- Explain the term 'amplitude' of a wave. Draw the diagram of a wave and mark its amplitude on it.
- Name two sound absorbing materials which can make our big rooms less echoic.
- State the laws of reflection of sound.
- Calculate the minimum distance to hear an echo.
- Which subatomic particle is not present in an ordinary hydrogen atom?
- Name the scientists who described the arrangement of electrons in an atom.
- Describe Thomson's model of the atom. Which subatomic particle was not present in Thomson's model of the atom?
- Describe Bohr's model of the atom. How did Neils Bohr explain the stability of atom?
- Explain why ${}^3\text{H}_1$ and ${}^3\text{He}_2$ are not considered isotopes.

13. Which radioactive isotope is used to determine the activity of thyroid gland?
14. What is the reason for the different atomic masses of the isotope of an element?
15. What is the role of photosynthesis in carbon cycle?
16. Name a nitrogen fixing bacteria.
17. What would happen if ozone layer in the atmosphere disappears?
18. How can lichen help in indicating the pollutants in air?
19. How are winds caused and what decides the breeze to be gentle, strong wind or a terrible storm?
20. What is acid rain? Give its harmful effects.
21. Discuss the uses of nitrogen.

SOCIAL SCIENCE

Answer the following questions.

1. When was the Bastille prison stormed?
2. Which socialist party was formed in Germany and Britain?
3. Give the name of the book written by Hitler.
4. Which two new crops were introduced by farmers in England to retain the fertility of the soil?
5. Name the canal which reduced 7000 km distance between India and Europe.
6. Which hills are called 'Purvanchal Hills'?
7. A type of drainage in which tributaries can be seen meeting the main stream at right angle.
8. When does tropical cyclones occurs in India?
9. Name the commercially important trees of tropical rainforest.
10. How is annual growth rate calculated?
11. What does a candidate need for contesting elections in china?
12. Who were called 'blacks' in South Africa?
13. What is turnout?
14. What is SEBC?
15. What are writs?
16. Which crop takes full one year to be ready?
17. Define virtuous cycle.
18. Give full form of ICDS.
19. Who collects buffer stock of food grains in India?
20. Which state of India has maximum Co-operatives ration shops?

Do all your holiday homework in respective notebooks.