

HOLIDAY HOMEWORK CLASS IX

Class 9th Holiday Homework Hindi

"आधुनिक उपकरणों का अधिकतम प्रयोग - हमारा विकास या विनाश" विषय से सम्बंधित एक नाटक या कहानी लिखिए।

ENGLISH

1. Read the stories in Moments.

2. Do the following value based questions (as per choice in a) and b)) in English copy based on the stories, The Accidental Tourist, The Beggar.

a) Bill Bryson is a confused person and irritates his fellows, yet he is loveable. What are the qualities in his character that make him loveable?

OR

Bill Bryson must fly 1,00,000 miles a year but he did not get his air miles. Why? How does absent mindedness result in loss? Explain with reference to the story "The Accidental Tourist"

b) Bad habits ruin a person. Lushkoff turned to begging because of his drinking habit. How does this habit ruin him? What lesson do you learn from his life?

OR

Compassion and pity can bring positive changes in a human being. How does the story "The Beggar" prove it?

3. Read Habit number 3 Seek First To Understand

4. Solve The Worksheet

SOCIAL SCIENCE

Geography - Make a scrap book (botanical file) in which paste the dry leaves of any 10 natural vegetation found in our surroundings and collect climatic requirements about them.

History

1. Collect two historical news, published during the holidays and write short notes on them.
2. India is a sovereign country. Give 5 evidences to justify the statement. and revise and write answers of any two questions a day during the holidays.

SCIENCE:

Physics:

Do the following numerical:

1. Avinash can run at a speed of 1 gm/sec against the frictional force of 10N and Kapil can move at a speed of 3m/s against the frictional force of 25N. Who is more powerful and why?

2. Power supplied to change the velocity of a car from 10m/s to 5m/s in 4s is 100W. Find the work done. If the mass of the car is 1000kg, find kinetic energy before and after the power is supplied to it.
3. A man of mass 60kg runs up a flight of 30 steps in 15 seconds. Each step is 20cm high, calculate the power developed by the man.
4. The weight of any person on the moon is about 1/6 times that on the Earth. He can lift a mass of 15kg on the earth. What will be the maximum mass, which can be lifted by the same applied by the person on moon?
5. In a house, following appliances are working:
 - 4 tube lights of 40W for 8 hours daily
 - 2 fans of 60W each for 10 hours daily
 - 1 TV of 200W for 8 hours daily.

Answer the following :

- (a) Calculate the total energy consumed per day and for month of April.
 - (b) What will be the units recorded in the meter for the month of 30 days.
6. Write units and dimensions for the following quantities:
 Work, force, energy, acceleration, gravitational constant, velocity, relative density, density

Chemistry-

1. A compound was found to contain carbon =55%, oxygen=36% and hydrogen =9% .What is the simplest whole no. ratio for the given compound.
2. Draw diagrams to show the distribution of electrons in the atoms of the elements with atomic no. 7, 13, 19 and 4 .
3. Make formula for the following compounds by valency criss cross method
 - a) Calcium phosphate
 - b) Magnesium oxide
 - c) Iron (iii) sulphate
 - d) Zinc sulphide
 - e) Aluminium carbonate
 - f) Ammonium hydroxide
 - g) Copper (II)chloride
 - h) Sodium sulphite
 - i) Silver nitrate
 - j) Mercury (II) oxide
4. Why do atoms of all elements except noble gases not exist as single atom ?
5. Compute the ratio by mass of the combining elements in each of them.
 NH_3 , MgS , HCl , AlF_3 , CaO

Biology

1. Write the answers of exercises of chapter on Diversity of living organisms.
2. Make comparative chart of kingdom Animalia and Plantae.
3. Write the answers for the following :
 - a) How does classification help in evolution of new species?
 - b) Why do most amphibians lay eggs in water?
 - c) Explain the basis for grouping organisms into five kingdoms .
 - d) Give merits and demerits of fish culture.
 - e) What is the development of mammals over aves ?
 - f) Rewrite the scientific names correctly :
 - panthera tigris
 - periplanetae Americana
 - g) Write the advantages of hybridization in animals.
 - h) Give examples of GMO organisms and their use .
 - i) List the adaptive features of amphibians.
 - j) Explain tissue culture and its advantages.

Computer Science

Make a chart on Python, Internet Security or Benefits of ICT

Mathematics

ACTIVITY: Draw track of 400 m containing 6 lanes, Also write the length of the stagger.

PROJECT: Make a project on the topic statistics containing the following points:

- Data and its type
- Collection of data
- Organisation of data
- Tabulation of data
- Presentation of data
- Interpretation of data
- Use of statistics in daily life

Worksheet:

- 1) The curved surface area of a right circular cylinder of height 14 cm is 88 cm^2 . Find the diameter of the base of the cylinder.
- 2) Water is flowing at the rate of 20m per minute through a canal of trapezium shape having parallel side 4m and 3m and height 2m. Find the amount of water release in half and hour.
- 3) A right angled triangle of perpendicular side 3cm and 4cm is revolved first about the side 3cm and then about the side 4cm . Find the ratio of the volume of generated solids.
- 4) Ratio of radius of two cylinders are 1:2 and their height are in the ratio 2:1, Find
 - i) ratio of their LSA
 - ii) ratio of their volumes
- 5) Length of cuboid is doubled and breadth and height is halved, How many times its volume will become?
- 6) Radius of cylinder is increased by 20% and its height is decreased by 10% find percentage change in the volume?
- Q7) Prove that angle subtended by the chord at the centre is a double to the any point on the circle.
- Q8) Prove that opposite angles of cyclic quadrilateral is supplementary and converse is also true.
- Q9) Angle bisector of cyclic quadrilateral is cyclic.
- Q11) Prove that isosceles trapezium is a cyclic quadrilateral.
- Q12) If two circles intersect at two points, prove that the line through their centers is the perpendicular bisector of the common chord.
- Q13) Two circles of radii 10cm and 8cm intersect each other and the length of the common chord is 12cm, find the distance between their centres.
- Q14) Prove that the quadrilaterals angle bisectors of the cyclic quadrilaterals is also cyclic.

ART- SCHOOL MAGZINE COVER PAGE OR VISION PAGES