Holiday Homework

Class 10th

Subject :- SCIENCE

#### PHYSICS/CHEMISTRY

1. Learn and write 2 question/answers of chapters "Light" & "Chemical Reactions and Equations" daily in separate notebook.

#### **Projects**

- Draw colourful Modern Periodic Table or Long form of the Periodic table on a chart or thermocol.
- 2. Make a free electric generator by using potato, salt and water.
- 3. Draw 6 figures on a chart formed by concave mirror or convex lens with their positions, size & nature.

Holidays Homework of

### **BIOLOGY**

- 1.All students will pick one topic from Biology and make a model/ Chart on it.
- 2.Learn and write about the Life Processes and write at least 150 words on each process.
  3.Choose a topic from Chapter 1 to demonstrate a lecture on it. Explain your topic with the help of pictures/ diagrams.
  - 4. Revise the Syllabus done in the class.

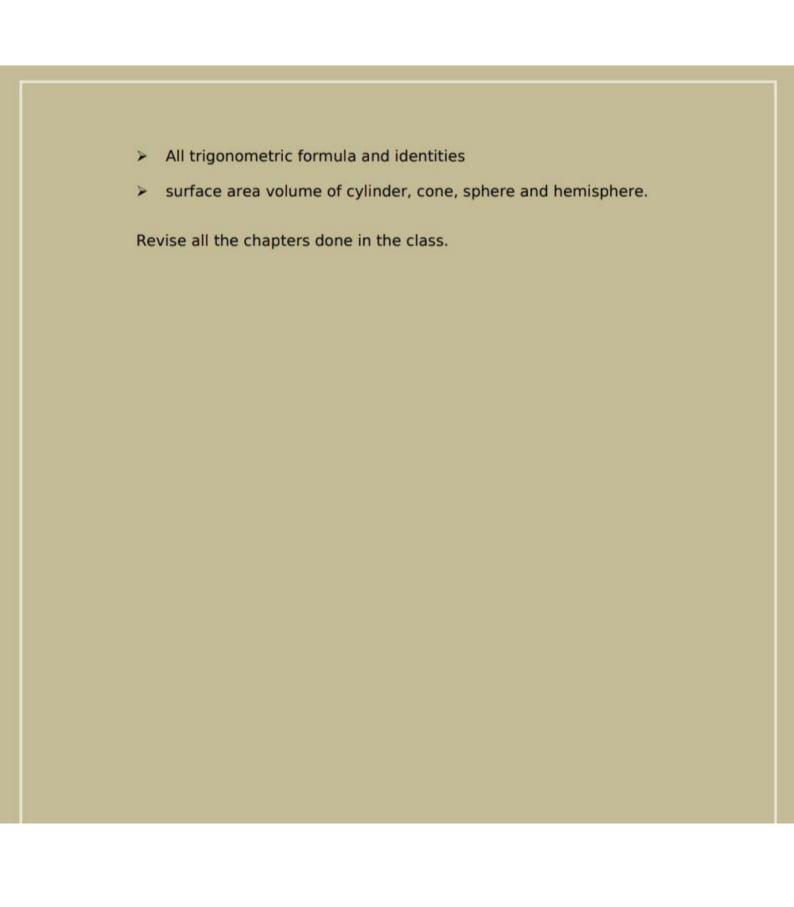


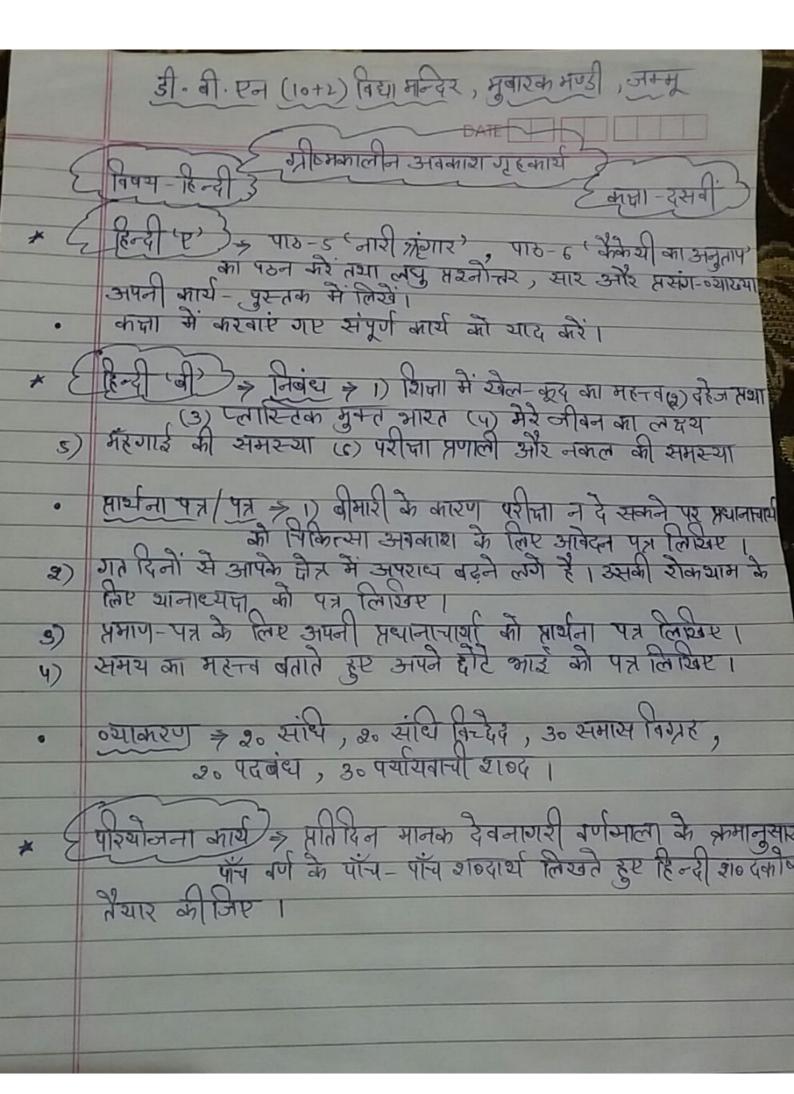
## Holidays Homework

Sub: Maths

Class - 10<sup>th</sup>

- 1. Decompose 32760 into prime factors.
- 2. Find H.C.F. of 26 and 91 by prime factorization method.
- 3. H.C.F of two numbers is 13 and their L.C.M. is 182 and one number is 26, find the other number.
- 4. Find prime factorization of 3825.
- 5. If b is a factor of a, find H.C.F. of a & b.
- 6. Find L.C.M. of a and b, if ab = 1800 and H.C.F. of a, b = 15.
- 7. Prove that  $6 + \sqrt{2}$  is irrational.
- 8. Prove that  $3 \sqrt{5}$  is irrational.
- 9. Examine if  $\frac{31}{(2\ddot{\iota}\dot{\iota}2)(5\ddot{\iota}\dot{\iota}2)\ddot{\iota}\dot{\iota}}$  is terminating decimal.
- 10.Prove that  $\frac{11}{30}$  is non terminating repeating decimal.
- 11. If x = -a is a root of  $x^2 + 3ax + k = 0$ , find k.
- 12.ls  $x^2 + 2\sqrt{x} 3 = 0$  a quadratic equation?
- 13. Use factor method to find roots of  $x^2 + 2\sqrt{2}x 6 = 0$ .
- 14. Solve  $x + \frac{1}{x} = 2$ .
- 15. Solve  $x^2 + 2x 4 = 0$  by the method of completing square.
- 16. Find k so that x = 2 is a root of  $3x^2 kx 2 = 0$ .
- 17. Prove that  $2x^2 4x + 3 = 0$  has no real roots.
- 18. Find the sum of roots and product of roots for  $2x^2 5x 4 = 0$ .
- 19. Solve by the method of completing squares the equation  $4x^2 11x + 6 = 0$ .
- 20. Solve by using quadratic formula:  $x^2 4ax + 4a^2 b^2 = 0$
- Project work





## D.B.N.(10+2) VIDYA MANDIR, MUBARAK MANDI, JAMMU SUMMER HOLIDAY HOMEWORK CLASS - 10th



## DO THE FOLLOWING TASKS IN YOUR ENGLISH NOTEBOOK:

1. Describe any one of the following proverbs in your own words. You should also add pictures to make it creative:

The pen is mightier than the sword

Or

All is well that ends well

- 2. Create your own diary in which you will write daily about one positive change which you will bring in Yourself like being organised or being punctual, etc. (Format of Dairy Entry)
- 3. Watch English news daily in order to equip yourself with the information and facts to be used in as Content in writing skills.
- 4. Smartphone is one of the most important means of communication today. But it has also become a nuisance for some. Write an article on the same in around 150 words.
- 5. Gather all the information you can on the Child Activist 'Greta Thunberg'.
- 6. Read and write the question and answers of the play 'The Proposal'.

HAVE FUN! ENJOY YOUR HOLIDAYS!

# HOLIDAYS HOMEWORK FOR CLASS- X SUBJECT – S.ST

- Write a project on water crisis in India, Water Management and Rain Water Harvesting (Add suitable pictures)
- 2. Paste map on scrap book of:-
  - **I Himalayan Rivers**
  - **II Major Rice Producing Areas**
  - **III Major Wheat Producing Areas**
  - **IV Major Industrial Region**
  - V Distribution of Coal and Petroleum
- 3. Project on any one Natural Disaster with relevant pictures
- 4. Revise all the syllabus done in the class