



## SAINIK SCHOOL AMBIKAPUR, CHHATTISGARH

(Diwali Vacation Homework – 07<sup>th</sup> Oct, 14 – 01<sup>st</sup> Nov, 14)

### Class-XI<sup>th</sup>

#### Mathematics

Miscellaneous exercises of the chapters covered so far from NCERT Text Book.

#### English

1. Read **The Canterville Ghost** by Oscar Wilde and **Up From Slavery** by Booker T Washington and write a book review focusing on the storyline. Write this in your regular English notebook.

2. **WRITING SKILLS:**

a) Write a letter to the Prime Minister of India informing him about the absence of a school, post office and primary health centre in your village. Mention how this has created difficulties for the villagers.

b) Write articles for your school magazine on the topic “**Time and Tide Wait For None**” and “**They who sweat in peace bleed less during War**”.

3. Choose a topic from among the following and prepare a Research Project in a project file:

- a), TECHNOLOGY AND SOCIETY
- b) CONTEMPORARY PROBLEMS OF INDIAN SOCIETY
- c) INDIA'S COMMON CULTURAL HERITAGE
- d) BASIC FEATURES OF INDIAN CONSTITUTION
- e) NATIONAL STRUGGLE FOR INDIA'S FREEDOM
- f) HUMAN RIGHTS

The project should include 600 words of hand written information, thoroughly researched and interspersed with relevant photos statistics, data and pictures.



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### **Physics**

1. COMPLETE THE EXERCISE of Ch-8.
2. WRITE THE SUMMARY POINTS FROM LESSONS 4,5,6,7 AND 8
3. DOWNLOAD THE 10 PHYSICS SAMPLE QUESTION PAPERS AND SOLVE THE QUESTIONS FROM THESE 10 QUESTION PAPERS RELATED TO LESSON 1 TO 8.

### **Chemistry**

1. Downloads chemistry sample and solve question related to completed chapter
2. Prepare notes related to s- block ,p-block and Hydrogen
3. Revise all completed chapters

### **Biology**

Write the answers of the textual questions of under mentioned lesson in your fair note book.

- (a) Lesson No 11: Transportation in plants.
- (b) Lesson No 12: Mineral Nutrition

### **Computer Science**

#### **Programs based on 1-D Array**

Do the following C++ Programs in your Computer Notebook -

1. Write a C++ program to find the sum and average of one dimensional integer array.
2. Write a C++ program to swap first and last element of an integer 1-D array.
3. Write a C++ program to reverse the element of an integer 1-D array.



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4. Write a C++ program to find the largest and smallest element of an array.
5. Write a menu driven C++ program with following option
  - a. Accept elements of an array
  - b. Display elements of an array
  - c. Sort the array using insertion sort method
  - d. Sort the array using selection sort method
  - e. Sort the array using bubble sort methodWrite C++ functions for all options. The functions should have two parameters name of the array and number of elements in the array.
6. Write a C++ program to accept an array of 10 elements (integers) and an element and search the given element and its position in an array. (LINEAR SEARCH)
7. Write a C++ program to accept user defined array and then count even and odd entries in an array.
8. Write a C++ program to accept user defined array and then count prime numbers in an array.
9. Write a C++ program to accept a String (set of chars) & check whether it is PALINDROME or not. ("NAMAN", "MADAM")
10. Write a C++ program to accept a String & count the number of
  - a. Vowels
  - b. Consonants
  - c. Spaces
  - d. Words
  - e. Special Characters

**HAPPY HOLIDAYS**