SAINT JOHN’S ACADEMY

PROJECT/ ASSIGNMENT FOR CLASS X 2014-15

TO BE COMPLETED BY 15TH JULY 2014

**ENGLISH LITERATURE**

**THE MERCHANT OF VENICE (Drama)**

 Discuss the novel The Merchant of Venice as a romantic comedy.

**Prose**

Do you agree that the ending of the story “Kabuliwala” exquisitely renders the richness of inner world of a man?

**Poetry**

Write the critical appreciation of the poem “ A Doctor’s Journal Entry for August 6, 1945

**MATHEMATICS**

(ANY THREE TO BE DONE)

1. Let the principal be Rs.100 and the rate of interest is 10% p.a.

|  |  |  |
| --- | --- | --- |
| Time period (in years) | Amount after adding SI | Amount after adding CI |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |

1. Complete the given table.
2. Draw graphs to show the amount after adding simple interest and after adding compound interest every year.
3. Revise this procedure taking Rs 100 as principal and rate of interest 5% p.a.
4. Compare both the graphs find your conclusion.
5. Prove that exterior angle of a circle made by a tangent is equal to the angle made in opposite segment of the circle (by using paper pasting method).
6. Make a circle of colored paper. Cut it into small sectors of even numbers. Paste them on a paper to form a rectangular shape. Using this rectangular shape find the formula for area of a circle.
7. Measure the length, breadth and height of drawing room, bedroom, kitchen and bathroom of your house. Find the area of walls and area of floor and ceiling. Subtract the areas of windows and doors from total area of walls. Using these areas find the cost of following.
8. Cost of painting including ceilings at the rate of Rs 15 per meter square.
9. Cost of flooring at the rate of Rs 90 per meter square.

**HISTORY/ CIVICS**

Develop an illustrative study of the agencies of the United Nations in promoting health education or environmental education or environmental issues in India.

**GEOGRAPHY**

X A Current geographical Issues – Tourist destinations and development of tourism in India.

X B Environment – Wildlife conservation efforts in India.

X C Transport in India – Railroads, sea ports, air routes and their development. Policies of india. Countries – problems of India. Countries – problems and plans for solving them.

**PHYSICS**

To be marked on practical.

**CHEMISTRY**

To be marked on practical.

**BIOLOGY**

To be marked on practical.

**COMPUTER APPLICATIONS**

Question 1.

Design a program to exhibit functional polymorphism.

Question 2.

Design an object oriented program to model a point in two dimension (i.e. x and y co-ordinate) and function for finding the midpoint() & distance between two points.

Question 3.

Design a program to enter 10 number from the user and determine whether they are entered in sorted order or not.

Question 4.

Design a program to enter some text and find the number of words containing two or more vowels.

Question 5.

Design a program to find the sum of n fibonacci terms, where the value of n would be entered by the user. Fibonacci series starts with 1, 1 and the following terms are obtained by adding the previous two terms. Eg: 1,1,2,3,5,8,...

**COMMERCIAL APPLICATIONS**

Study the working of Commercial Bank (any 1) with regard to the working, functions, deposits, loans.

**PHYSICAL EDUCATION**

To be marked on practical.

**HINDI**

 **[k.M & d**

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