



CONVENT OF JESUS AND MARY

NEW DELHI

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CLASS XI

ENGLISH

READING LIST

- 1.To Sir,With Love - E.R.Braithwaite
- 2.Roots - Alex Haley
- 3.The Third Wave - Alvin Toffler
- 4.The Hungry Tide - Amitav Ghosh
- 5.Shadow Lines - Amitav Ghosh
- 6.Dancing in Cambodia and Other Stories - Amitav Ghosh
- 7.Lost Horizon - James Hilton
- 8.Random Harvest - James Hilton
- 9.Maximum City - Suketu Mehta
- 10.The City of Djinns - William Dalrymple
- 12.Palace of Illusions - Chitra D. Bannerjee
- 13.One Amazing Thing - Chitra D. Bannerjee
- 14.Banker to the Poor - Muhammad Younis
- 15.A Twist in the Tale - Jeffrey Archer
- 16.A Quiver Full of Arrows - Jeffrey Archer
17. Sea of Poppies - Amitav Ghosh

RECOMMENDED FILMS:

1. An Education
2. Woman in Gold
3. The Changeling
4. Amelia
5. Million Dollar Baby
6. The Walk
7. A Good Year
8. A Beautiful Mind
9. Sully
10. Breakfast at Tiffany
11. Moonlight
12. Blind Side
13. My Sister's Keeper
14. Hollow Man



CLASS -11 COMPUTER SCIENCE (HOLIDAY HOMEWORK)

- 1 _____ is the function essential for all c++ programs.
- 2 Every function name in c++ end with _____.
3. _____ is the part of source code which is completely disregarded by the compiler.
- 4 How is a statement terminated in c++?
- 5 The instruction beginning with the _____ sign is directive for the preprocessor.
- 6 _____ is a statement used to call the standard input-output library function in c++ program.
- 7 Write a C++ program to declare two integer , one float variables and assign 10, 15, and 12.6 to them respectively. It then prints these values on the screen.

- 8 _____ and _____ are necessary for any c++ program code to begin.
- 9 Write the statements in c++ for each situation described below:
(a) Print out the values of a,b,c in a single line.

(b) Write a single line statement to print the value of C1,C2,C3 in three separate line.

- 10 How many files are created when a c++ file is executed? What are they?

- 11 Where is the source code written in c++? _____
- 12 What is the difference between x and "x" in c++

- 13 Give header files for the following function .
1. Getch() _____ 2. Setw() _____
3. Delay() _____ 4. Clrscr() _____
- 14 The c++ language is _____ language.
- 15 Name the function used to view the output screen. what is the alternative key combination used in the place of this function missing in the program.



BIOLOGY

PHOTOSYNTHESIS

1. Differentiate between action spectrum and absorption spectrum.
2. By looking at which internal structure of a plant can you tell whether a plant is C₃ or C₄? Explain.
3. Describe three reasons for the generation of a proton gradient between the lumen of thylakoids and the stroma of chloroplasts.
4. Represent schematically the process of ATP synthesis through chemiosmosis in chloroplasts.
5. How many molecules of ATP and NADPH are required to fix one molecule of CO₂?
6. Mention the four important processes /events associated with the photochemical phase of photosynthesis.
7. Cyclic photophosphorylation results in production of ATPs and not NADPH . Give reasons.
8. Describe the basic characteristics of a photosystem and explain how photosystem I differs from photosystem II.
9. Where does Calvin cycle take place in chloroplast? Describe the three phases of Calvin cycle.
10. Where is NADP reductase enzyme located in the chloroplasts? What is the role of this enzyme in proton gradient development?

NOTE: COMPLETE THE INVESTIGATIVE PROJECT.

ECONOMICS

- Research on the approved topic.
- Complete the assignment given in the class. (Consumer Behaviour)



MATHS

1. Find values of :-

a) $\cos 495^\circ$

b) $\sin 1230^\circ$

c) $\cot (-315^\circ)$

2. If $\tan 35^\circ = a$, prove that $\frac{\tan 145^\circ - \tan 125^\circ}{1 + \tan 145^\circ \tan 125^\circ} = \frac{1-a^2}{2a}$

3. Prove that $\cos^2 2x - \sin^2 x = \cos x \cdot \cos 3x$

4. Prove that $\tan 13x = \tan 4x + \tan 9x + \tan 4x \cdot \tan 9x \cdot \tan 13x$

5. Show that $\sin \alpha + \sin (\alpha + 2\pi/3) + \sin (\alpha + 4\pi/3) = 0$.

6. Prove that $\tan (\pi/4 + x) + \tan (\pi/4 - x) = 2 \sec 2x$.

7. If $\cot x + \tan x = 2 \operatorname{cosec} x$, then find the general value of x .

8. If $\sec x \cdot \cos 5x + 1 = 0$ where $0 < x < \pi/2$, find the value of x .

9. Solve the following equations:

a) $\sqrt{3} \cos x + \sin x = \sqrt{2}$

b) $\sqrt{3} \cos x - \sin x = 1$

c) $\tan x + \sec x = \sqrt{3}$

10. In a ΔABC , prove that

a) $\frac{\sin (B - C)}{\sin (B + C)} = \frac{b^2 - c^2}{a^2}$

b) $\frac{\tan (B - C)}{2} = \frac{b - c}{b + c} \cot \frac{A}{2}$



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$$c) \frac{(a + b) \sin C}{2} = c \cdot \cos \frac{A - B}{2}$$

11. Two boats leave a place at the same time. One travels 56 km in the direction N 40°E, while the other travels 48 km in the direction S 80°E. What is the distance between the boats.

