BARNES SCHOOL AND JUNIOR COLLEGE,DEVLALI
HALF YEARLY EXAMINATION 2011-2012
COMPUTER SCIENCE

Time :3 hrs **Class : 12** **Max Marks:100**

Answer all questions in Part I(compulsory) and seven questions from part II ,Choosing three questions From Section –A, two from Section – B and two from Section – C

All working including rough work should be done on the same sheet as the rest of the answer.

The intended marks for questions are given in brackets [ ].

PART I

*Answer **all** questions*

Q1.Explain the different types of errors. [5]

Q2. Differentiate between if else and switch statement. [5]

Q3. What is Tree transversal ? Explain its types [5]

Q4. Write a note on : a) Public b) Private [5]

Q5. Explain the types of Queue with a diagram. [5]

Q6. Define : a) Parent node b) Siblings [5]

PART II

Answer seven questions in this part, choosing three questions from Section A, two from Section B and two from Section C

SECTION – A

Answer any three questions

Q7. Write a program to print the Fibonacci series [10]

Q8. Explain the different types of Inheritance [10]

Q9. What is Stack and explain its different operations on stack [10]

Q10.Draw the Expression tree for the following [10]

a. (a + b) * (c – d)
b. 2a / 3b
c. $2^3 + 7^2$
d. ($2a + 3^2$) * (3b - c)
e. (a + b) * (c + d) – e

SECTION – B

Answer any two questions

Q11. Write a program to print the factorial of entered number [10]

Q12. Explain link list and its type in detail [10]

Q13. What is a Queue and explain the different operations on Queue [10]

SECTION –C

Answer any two questions

Q14. Convert the following Infix expression to Postfix expression [10]

a. ((a + b) + (c + d) * (e + f))
b. ((a + b) – (c / d))

Q15. Write a program to print the sum of 100 natural numbers [10]

Q16. Write an algorithm to insert / add a node to a list [10]

a. At first
b. At last