**Assignment**

**Module-1 (Computer Basics)**

1. Explain LAN, MAN and WAN with examples.

2. What is Flow Chart? Make a flow chart for a program to print Even numbers.

3. What do you mean by Recursion? Write a C program to calculate the Factorial of a number using recursion.

4. Write a program to demonstrate the use of switch...case statement.

5. Write a Program to add two numbers using call by value and call by reference.

6. What do you mean by Stack and Linked List? Explain with examples.

7. Write a program to demonstrate the PUSH & POP operations on making a Stack of items.

8. Write any five features of Object Oriented Programming.

9. What is virtual function ? Make a program to define pure virtual function in C++.

10. What is a Protocol? Explain the 7 Layer ISO - OSI protocol.

**Module-2 (Operating System)**

11. Define UNIX. Write down the features of UNIX OS.

12. Write the use of commands like cp, mv, date, cal etc.

13.How can you change the file permissions in UNIX.

14.Write some notes on Vi, Vim and gEdit.

15. What is Shell Scripting ? Write its different types.

**Module-3(RDBMS)**

16. What is an ER- Diagram?

17. What are Joins? Explain different types of Joins.

18.Write a query to display the names of the students alphabetically from student table.

19. What do you mean by Cursors and Triggers?

20. Explain the concept of primary key and Foreign Key.

21 Write an insert query in DB2 to insert an employee details in a Employee table.

**Module-4(Microsoft Products)**

22. What is Visual Basic? Write its features.

23. Write a program to create two text boxes and two buttons and calculate addition and multiplication of two numbers and display result on the label.

24. Write a program to link a form to another form.

25. Write a VB.Net program to take a number from the user in a text box and Display its factorial.

26. Write a program to inherit a Class in VB.Net.

**Module-5(Web Applications)**

27. Write any 3 features of Java Programming Language.

28. What are Classes and Objects? Make a program that shows the concept of a Class.

29. What is a POJO Class ? Make a POJO class as Employee and access this class methods in other class.

30. Write a JDBC program to store details of a person.

31. What is Exception Handling in Java? Make a Program to handle divide by zero Exception.

32.Differentiate between XML and HTML.

33. Write a program using Angular JS to demonstrate the use of ng-init and ng-bind.

34.Define servlets & JSP .Write a Program to transfer data from JSP to Servlet.

35. What is a Spring Bean? Explain constructor Dependency injection.

36. What is a Web Service ? Write their types.

Objectives :-

## 37. Which operation is used as Logical 'AND'

## [A.](javascript:%20void%200;) Operator-& [B.](javascript:%20void%200;) Operator-|| [C.](javascript:%20void%200;) Operator-&& [D.](javascript:%20void%200;) Operator +

38. Multipoint topology is

A. Bus B.Star C.Mesh D. Ring

38. What type of servlets use these methods doGet(), doPost(),doHead, doDelete(), doTrace()?

a. Genereic Servlets b. HttpServlets c. All of the above d. None of the above

39. When the user clicks a button, \_\_\_\_\_\_\_\_\_ is triggered.  
A. an event B. a method C. a setting D. a property

40. Shell scripts need to be saved with an extension .sh .  
a) True  
b) False