

Computer Science

(330)

Assignment - I

(Lessons 1-6)

Max. Marks: 25

- Note:** (i) All questions are compulsory. Each question carries equal marks.
(ii) Write your name, enrolment number, AI name and subject etc. on the top of the first page of the answer sheet.

1. Answer any **two** of the following questions.
 - (a) What are line printer and thermal printer? How are these different from a Laser printer? Explain.
 - (b) List various input devices and briefly describe any three.
 - (c) State and explain different types of computer memory with the help of two examples each.
2. Answer any **two** of the following questions.
 - (a) Write short notes on:
 - (i) TCP/IP connection, (ii) E-mail, (iii) Job Control Language (JCL)
 - (b) Explain briefly about compiler and Interpreter.
 - (c) Explain briefly with the help of diagram Data processing cycle and Data organisations.
3. What is a computer language? Explain different types of computer languages.

OR

What is an operating system? Give examples and explain various functions of an operating system.

4. Write short notes on:
 - (a) Bar code and Barcode Reader
 - (b) Start button and Task bar
 - (c) Asynchronous and Synchronous Transmission

OR

- (a) Network Topologies
- (b) E-commerce
- (c) World Wide Web

5. Project work

Write down the necessary steps to carry out the following.

- (a) Create a folder named as 'Project 1' in C drive.
- (b) Make a short cut of the above folder on the desk top.
- (c) Create a document file with the text 'Your name and address' and save it in the folder "Project 1" with the file name "Vinayak".
- (d) Create a folder "Project 2" on the desk top.
- (e) Copy the file "Vinayak" from the folder "Project 1" into the folder "Project 2".

Computer Science

(330)

Assignment - II

(Lessons 7-11)

Max. Marks: 25

- Note:** (i) All questions are compulsory. Each question carries equal marks.
(ii) Write your name, enrolment number, AI name and subject etc. on the top of the first page of the answer sheet.

1. Answer any **two** of following questions
 - (a) What is a Token? What type of Tokens are used in C++? Briefly describe any two.
 - (b) Write the difference between Character Constants and Floating Constants.
 - (c) Differentiation between Data Encapsulation and Polymorphism?
2. Answer any **two** of the following questions
 - (a) Write a programme to find the sum of first ten natural numbers.

OR

Write a program to multiply first five even numbers and print the result.

- (b) What is a Statement? Briefly describe Null and Compound Statement.
 - (c) What is the purpose of using Nested If in C++ programme? Give an example by drawing a flow chart.
3. Write a program in C++ to count the number of vowels in the word "AUTHORIZATION"

OR

What is the main purpose of using an Inline function? Write a program in C++ to call a function which will return the square of a given number using Inline function.

4. (a) Explain the Bubble sort method with suitable example. Given the following array:
13, 19, 6, 2, 35, 28, 51, 16, 65, 4
What will be its result after three Iterations?
- (b) What is Binary search? Give steps for finding the numbers 30 and 50 in the given array:

	12	17	21	30	37	42	45	50
Location	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)

OR

- (a) Write a program to print the table of a number entered by the user.
 - (b) Write a program to count the number of characters in the string entered by user.
5. **Project Work**
Write a program to
 - (a) Input ten even numbers.
 - (b) Sort above numbers in ascending order using Bubble sort method.
 - (c) Delete the seventh number.
 - (d) Print the sum of remaining numbers.

Computer Science

(330)

Assignment - III

(Lessons 12-16)

Max. Marks: 25

- Note:** (i) All questions are compulsory. Each question carries equal marks.
(ii) Write your name, enrolment number, AI name and subject etc. on the top of the first page of the answer sheet.

1. Answer any **two** of following questions
 - (a) What do you understand by a Nested Class? Differentiate between Protected and Private members.
 - (b) Declare a structure named ITEM to store five item details having item-code, item-name, rate and quantity in it.
 - (c) What is a structure? How is it different from an array?
2. Answer the following questions:
 - (a) What is inheritance? Explain with the help of a diagram the different forms of inheritance.
 - (b) (i) How is a pointer variable different from an ordinary variable?
(ii) Describe any two pointers.
3. Answer any **two** of the following
 - (a) What is a function? Describe briefly:
 - (i) tellg () and tellp () function
 - (ii) write () and read () function
 - (ii) cloes () function
 - (b) Explain the need of # include< iostream.h> and void main () in a C++ program.
 - (c) Explain the concept of copy constructs by giving an example.
4. (a) Write brief notes on the following:
 - (i) Type def
 - (ii) Visibility modes
- (b) Write a C++ nested structure for the following record using appropriate data type:

Name	Branch	Address
		Street number
		House number
		City
		Country/Code

OR

Explain with the help of examples any **two** of the following.

- (i) get ch () and get che () function
- (ii) Local and global variables
- (iii) Call by value

5. Project Work

Write a program for Employee. The record will consist of four fields; emp-no, emp-name, salary, department. The above program should include:

- Create a data type of 4 records
- Display a data file
- Modify one of the record
- Add a new record