

Q. No.	Question
Module I (Each question carries 5 marks)	
1	Explain basic model of computer with diagram.
2	Which are basic operations of computer? Explain with diagram.
3	Explain characteristics and uses of computer.
4	Write short note on functional units of computer
5	Explain any 3 input devices
6	Explain any 3 output devices
7	Explain impact printers
8	Explain non impact printers
9	How computers are classified based on data handling?
10	How computers are classified based on functionality?
11	Explain cache memory with it's advantages and disadvantages
12	Explain primary memory
13	Explain secondary memory
14	Write short note on ram
15	Write short note on rom
16	Which are various generatins of computer?
17	Write short note on parallel and distributed computing.
18	Explain algorithm with example
19	Explain flowchart and its symbols
20	Draw flowchart/write algorithm for given problem.
Q. No.	Question
Module II and Module III (Each question carries 2/3 marks)	
1	What is spreadsheet?
2	Write short note on quick access toolbar
3	Why to use keyboard shortcuts?
4	Explain any 8 keyboard shortcuts
5	How many categories of functions are available in excel? Explain any two of them.
6	Explain any 3 text functions with example
7	Explain if function in excel
8	Explain and/ or function in excel
9	Explain any 5 statistical functions
10	Explain engineering functions to convert bases
11	How to find current date and time in excel? How to extract components of time in excel?
12	Explain COUNTIF, SUMIF,SUMIFS, AVERAGEIFS and IFERROR functions
13	Explain different kind of error codes in excel
14	What is use of conditional formatting? How to apply conditional formatting?
15	Write short note on PivotTable and PivotCharts
16	Compare charts and pivot charts
17	Explain templates, trendlines and sparklines
18	Write short note on filters
19	How to sort data stored in worksheet
20	Explain VLOOKUP function in excel
21	How to insert shapes and images in to excel.
22	Explain data validation in excel.

Module IV (Each question carries 5 marks)	
Q. No.	Question
1	Which are various data types available in C? Give example for each.
2	Explain constants, variables and keywords available in C.
3	What are the rules for constructing a variable name? Explain using example.
4	Explain arithmetic and assignment operators in C
5	Explain logical and relational operators in C
6	Explain conditional operator using a program.
7	Which are various decision control instructions in C?
8	Explain if-else with example.
9	How switch statement helps in decision making? Explain with example.
10	How switch statement works? Explain using flowchart.
11	How if statement works? Explain using flowchart.
12	Compare if-else ladder and switch statement
13	Explain else-if ladder with example.
Module V (Each question carries 5 marks)	
Q. No.	Question
1	What is use of loops? Which are various types of loops?
2	How while loop works? Explain using flowchart.
3	How for loop works? Explain using flowchart.
4	How for loop works? Explain using flowchart.
5	Write short note on break statement.
6	Write short note on continue statement.
7	What is an Array? Why it is used?
8	How to declare an array? How to enter data into an array?
9	Write short note on 2-D array.
10	How array elements of 1-D array are stored in memory? Explain with the help of diagram.
11	Explain memory map of 2-D array.

Draw flowchart and/or write algorithm and/or C program for following examples.	
1	Check if given number is divisible by 5
2	Accept two integers and check if they are equal
3	Check whether a number is even or odd
4	Check whether entered year is leap year
5	Compute the perimeter and area of a circle
6	Compute area of triangle
7	Compute area of rectangle
8	Compute area of square
9	Print all even numbers, their sum and average between given range.
10	Count negative numbers, print sum and average negative numbers from user entered numbers.
11	Count negative numbers, print sum and average positive numbers from user entered numbers.
12	Convert a given integer (in seconds) to hours, minutes and seconds.
13	Convert a given integer (in days) to years, months and days, assumes that all months have 30 days and all years have 365 days.

14	Read three values and check if it is possible to make a triangle with them. Also calculate the perimeter of the triangle if the said values are valid.
15	Read a password until it is correct. For wrong password print "incorrect password" and for correct password print "correct password" and quit the program. The correct password is 1234.
16	Convert temperature from Celsius to Fahrenheit
17	Convert temperature from Fahrenheit to Celsius
18	Calculates the volume of a sphere.
19	Take hours and minutes as input, and calculates the total number of minutes
20	Find the third angle of a triangle if two angles are given.
21	Read the age of a candidate and determine whether it is eligible for casting his/her own vote.
22	Accept the height of a person in centimeter and categorize the person according to their height.
23	Check whether a character is an alphabet, digit or special character.
24	Swap two numbers without using third variable
25	Find largest of three numbers
26	Read an integer and check the specified range where it belongs. Print an error message if the number is negative and greater than 80.
27	Calculate the sum of first 50 natural numbers
28	Display characters from a to z using loop
29	Print all numbers divisible by 7 between 1 and 50
30	Print table of number given by user
31	Print ascii table.
32	Calculate the sum of all number divisible by 17 between two given integer numbers.
33	Prints all odd numbers, and their sum and average between given range.