

Note: Attempt five questions from Section-B and Section-C, selecting atleast two from each part and the entire Section-A.

Section-A

- I. Give short answers of the following:
- What is an operating system?
 - Differentiate between primary memory and secondary memory.
 - What are keywords?
 - What are expressions? How are they evaluated?
 - What is the use of continue statement?
 - Differentiate between user-defined functions and library functions.
 - What is data encapsulation?
 - What are constructors?
 - What is a friend function?
 - What is a stream?

(2×10 =20)**Section-B**

- Draw and explain the different components of block diagram of the computer.
- What do you mean by GUI? What are the significant features of GUI based operating system?
- Define an algorithm. Write an algorithm to check whether a given number is prime or not. Draw its flowchart as well.
- What are spreadsheets? How are they created? Describe how data in a spreadsheet can be analyzed by using simple graphs like bar charts and line graphs.

(8 marks each)**Section-C**

- What is a reference variable? What is its major use?
 - Differentiate between call by value and call by reference.
- What is a class? How does it accomplish data hiding?
 - Can we have more than one constructor in a class? If yes, explain the need for such a situation?
- What does inheritance mean in C++? What are the different forms of inheritance?
- What is file? Write a program that read some text from keyboard and write it into a file named "Abc.txt". The program then reads this file and displays its content on the computer screen.

(8 marks each)

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