

C-PROGRAMMING AND DATA STRUCTURE – BAP-201

Semester-III

Time Allowed : Three Hours]

[Maximum Marks : 60

Note : Candidates are required to attempt two questions each from Section A and B. Section C is compulsory.
Use of Non-programmable scientific calculator is allowed.

Section : A

1. What are various formatted and unformatted input output functions available in C ? Explain giving examples. 12
2. Write a program to print the palindrome numbers between any two given numbers. 12
3. Elaborate various storage classes supported by C language. 12
4. What do you mean by structure ? How structures are different from Union ? Explain with the help of suitable examples. 12

Section : B

5. What do you mean by Data Structures ? What is the use of data structures ? What are various

- types of data structures ? Discuss in detail. 12
6. Define an Array. What are the advantages and disadvantages of using array ? How an array is represented in memory ? What do you mean by traversing in an array ? 12
7. Define a Queue Data Structure. Write an algorithm to insert and delete an element from a queue. 12
8. What do you mean by Searching ? List various searching techniques. Which searching technique you consider is the best and why ? Explain that searching technique you consider the best. 12

Section : C

9. Explain brief notes on the following :
- (a) What do you mean by Keywords ? Name any 10 keywords.
 - (b) What do you mean by Recursion ?
 - (c) Differentiate between Break and Continue Statement.
 - (d) What do you mean by Time Space trade off ?
 - (e) What do you mean by Traversing an Array ?
 - (f) Compare Selection Sort and Bubble Sort.

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