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Total No. of Printed Pages: [01]

Total No. of Questions: [09]

BCA (Semester – 5th)
COMPUTER PROGRAMMING AND DATA STRUCTURE
Subject Code:BCSE0F91
Paper ID: [OE2160119]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consists of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consists of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- (a) What is a userdefined data type?
- (b) Explain explicit typecasting.
- (c) What is the use of a break statement?
- (d) Define global variables.
- (e) How is a program executed in Turbo C?
- (f) What is a nested control structure?
- (g) List various string functions.
- (h) Give a brief note on the data structure.
- (i) Write a syntax for creating a union.
- (j) Define the expression with an example.

Section – B

(5 marks each)

- Q2. What do you mean by variables? Explain in detail.
- Q3. How is the stack different from the queue?
- Q4. Write a program to find the greater number among three numbers using nested if else.
- Q5. Define the looping statement and differentiate between the while and the do-while loop.
- Q6. What is an array? How these are declared and defined.

Section – C

(10 marks each)

- Q7. a) What do you mean by operators? Explain operator precedence and its associativity.
b) Explain the purposes of different standard library functions used in C.
- Q8. a) What is the link list? How is the insertion operation performed on it?
b) Differentiate between structure and union in detail.
- Q9. a) Describe the usage of pointers in C. Explain with suitable examples.
b) What is a high-level programming language? Write down its features.