

B.C.A. Part-I (Semester—I) (CBCS) Examination
STRUCTURED PROGRAMMING PARADIGMS
Paper—1BCA2

Time : Three Hours]

[Maximum Marks : 80

1. (A) Choose the correct alternative from the following :

- (1) The method of solving a problem is known as a/an _____.
 - (a) Program
 - (b) Programmer
 - (c) Algorithm
 - (d) Testing
- (2) The specification for reading a character string are _____.
 - (a) % d
 - (b) % i
 - (c) % c
 - (d) % f
- (3) Strcmp () is used to _____ two strings.
 - (a) Merge
 - (b) Compare
 - (c) Compute
 - (d) None
- (4) When function can call itself, this term is called as _____.
 - (a) Recursion
 - (b) Refunction
 - (c) Nesting
 - (d) None
- (5) String is a collection of _____.
 - (a) Characters
 - (b) Numbers
 - (c) Words
 - (d) Values
- (6) Collection of different data types is called _____.
 - (a) Array
 - (b) Structure
 - (c) Pointer
 - (d) File
- (7) # include is called :
 - (a) Preprocessor directive
 - (b) Header File
 - (c) Inclusion Directive
 - (d) File Inclusion
- (8) When a function with no return type is declared as _____.
 - (a) New
 - (b) Void
 - (c) Return
 - (d) Index

(9) Which loop is guaranteed to execute at least one time ?

- (a) While
- (b) For
- (c) Do while
- (d) None

(10) Conditional operator are also known as _____ .

- (a) Binary operator
- (b) Relational operator
- (c) Ternary operator
- (d) Arithmetic operator

1×10=10

(B) Fill in the blanks :

(1) Computers understand only _____ .

(2) C language has been developed by _____ .

(3) Micro is defined by _____ directive.

(4) A pointer is _____ data type.

(5) Variable which stores address of another variable is called _____ . 1×5=5

(C) Answer the following questions in one sentence each :

(1) What is File handling ?

(2) What is Array ?

(3) What is compiler ?

(4) What is structural programming ?

(5) What is Union ?

1×5=5

2. (A) What is Flowchart ? Explain the symbols used in flowchart with example.

8

(B) Explain Top down and Bottom up approaches.

4

OR

3. (A) Describe the types of Programming Language. Explain its features.

8

(B) Explain the following terms :

(i) Interpreters.

(ii) Object oriented programming.

4

4. (A) Describe the various types of operators supported by C language.

8

(B) Explain while and do while with examples.

4

OR

5. (A) What is variable ? Explain various types of Data type used in C with example.

8

(B) Explain following terms :

(i) Continue

(ii) Break.

4

6. (A) What are the different types of Array ? Explain one dimensional Array with their declaration and example. 8
- (B) Explain call by value and call by reference. 4
- OR**
7. (A) What is Pointer ? Explain its syntax with example. 8
- (B) What is Recursion ? Explain with example. 4
8. (A) What is structure ? Explain structure with example. 8
- (B) What is string ? Explain string declaration with example. 4
- OR**
9. (A) What is structure ? Explain Nested structure with example. 8
- (B) Explain various operations on strings. 4
10. (A) What is file ? Explain opening and closing a file with example. 8
- (B) Explain symbolic constant with example. 4
- OR**
11. (A) What is file ? Explain function used for random access file processing. 8
- (B) What is micros ? Explain general properties of micros. 4