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Reg. No. :

Code No.: 20677 E

Sub. Code: EFCA 11

B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

First Semester

Computer Application – Foundation Course

STRUCTURED PROGRAMMING LANGUAGE IN C

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. _____ cannot be used as identifiers.

- (a) keywords (b) constants
(c) tokens (d) operators

2. The execution of a C program always starts from the _____ function.

- (a) main () (b) printf()
(c) scanf() (d) puts ()

3. C has a built in multi way decision statement known as _____ statement.

- (a) while (b) if
(c) for (d) switch

4. The _____ loop is useful while executing a statement number of times.

- (a) switch (b) while
(c) for (d) if

5. Elements of a string are accessed by a number called as _____.

- (a) array (b) index
(c) element (d) name

6. The _____ operator is used to indicate arrays.

- (a) {} (b) < >
(c) [] (d) ()

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7. A function is invoked by a _____ statement.
 (a) function header (b) function prototype
 (c) function call (d) function definition
8. The _____ function is used to compare the string.
 (a) strlen() (b) strcmp()
 (c) strcat() (d) strcpy()
9. The _____ operator is called as the indirection operator.
 (a) ? (b) &
 (c) # (d) *
10. The variables defined within structure declaration are called as _____.
 (a) members (b) reference
 (c) member access (d) value

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
 Each answer should not exceed 250 words.

11. (a) How do you declare and assign values to variables in C? Explain.
 Or
 (b) Recall conditional operators with its syntax and example.

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12. (a) Outline Jump statements in Loops.

Or

- (b) Compare and Contrast between while and do.. while loop.

13. (a) How will you declare and accessing elements in an array? Explain.

Or

- (b) Write a C program to find the total of marks of students stored in an array.

14. (a) How will you pass arrays to functions? Explain.

Or

- (b) Briefly explain about storage classes in C.

15. (a) Distinguish between accessing variable through address and pointer.

Or

- (b) Give short notes on pointers and arrays.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Summarize Tokens with an example.

Or

- (b) Discuss briefly the datatypes in C.

17. (a) Demonstrate various forms of If statements in C with its syntax and example.

Or

- (b) Elaborate For.. Loop statement in detail. Also implement a program to generate Pascal Triangle using For..Loop.

18. (a) Elucidate single dimensional array with its syntax and example.

Or

- (b) Interpret the usage of multidimensional array.

19. (a) Classify and explain functions and its types.

Or

- (b) Create a C program to demonstrate string functions.

20. (a) Describe in detail about pointers and functions.

Or

- (b) Illustrate about pointer and structures.

