

(6 pages)

Reg. No. :

Code No. : 41343 E Sub. Code : JMCA 11

B.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2019.

First Semester

Computer Application – Main
PROGRAMMING IN C

(For those who joined in July 2016 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. C programs are converted into machine language with the help of
- (a) An Editor
 - (b) A compiler
 - (c) An operating system
 - (d) None of these

2. Standard ANSI C recognizes _____ number of keywords?
- (a) 30
 - (b) 32
 - (c) 24
 - (d) 36
3. Which of the following is not logical operator?
- (a) &
 - (b) &&
 - (c) ||
 - (d) |
4. In mathematics and computer programming, which is the correct order of mathematical operators?
- (a) Add, Sub, Mul, Div
 - (b) Div, Mul, Add, Sub
 - (c) Mul, Add, Div, Sub
 - (d) Add, Div, Mod, Sub
5. Output of following program:
- ```
float x = 10.7;
int i;
i = (int)x;
print i;
```
- (a) null
  - (b) error
  - (c) 10
  - (d) garbage value

6. Which one of the following is not a reserved keyword for C?

- (a) auto                      (b) case  
(c) main                      (d) default

7. Which operator in c can't be overloaded?

- (a) %                      (b) +  
(c) ::                      (d) -

8. printf() belongs to which library of c

- (a) stdlib.h                      (b) stdio.h  
(c) stdout.h                      (d) stdoutput.h

9. What is true about fputs function

- (a) write to a file  
(b) take two parameters  
(c) requires a file pointer  
(d) all of above

10. Smallest element of an array is called

- (a) lower bound                      (b) range  
(c) middle bound                      (d) upper bound

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Role of flowcharts in graphical representation of a solution to a problem.

Or

(b) Define (i) Keywords (ii) basic data types (iii) constants and literals.

12. (a) Explain switch case with real life example.

Or

(b) Distinguish between while and do-while.

13. (a) Explain user defined functions and parameter passing.

Or

(b) Define recursion with suitable examples.

14. (a) Distinguish between one dimensional and two dimensional arrays.

Or

(b) Define: (i) call by reference (ii) typecast and size of operators.

15. (a) Distinguish between two dimensional arrays and multi-dimensional arrays.

Or

- (b) Why do we return a pointer from a function?

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Describe: (i) Arithmetic expressions  
(ii) evaluating expressions (iii) type conversions.

Or

- (b) Compare : (i) arithmetic and logical operators (ii) increment-decrement and bitwise operators.

17. (a) Significance of looping and its types.

Or

- (b) Compare: (i) For and do-while (ii) while and For.

18. (a) Explain with illustrations the nested control structures.

Or

- (b) Explain functions.

19. (a) Define Pointers.

Or

- (b) Explore Arrays.

20. (a) Give a detailed description of Structures in C.

Or

- (b) Explain the basics of file and their access methods.
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