Reg. No. :

Question Paper Code: 41206

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

First Semester

Civil Engineering

14UCS106 - COMPUTER PROGRAMMING

(Common to ALL Branches)

(Regulation 2014)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. What is a volatile memory?
    (a) that requires power to maintain the stored information
    (b) does not require a maintained power supply to retain the stored information
    (c) Permanent memory
    (d) Very large memory

2. _____ is programming analysis tool that is used for planning program logic.
    (a) Algorithm   (b) Flow chart   (c) Pseudo code   (d) High level languages

3. When we use CASE control structure?
    (a) To choose one from multiple alternates
    (b) To switch from one instruction to another
    (c) To make the execution fast
    (d) To change the Case of the text used

4. The case keyword is followed by
    (a) float values   (b) integer values   (c) character values   (d) both b and c

5. If an array is used as function argument, the array is passed as

    (a) By value   (b) By reference

    (c) By name   (d) The array cannot be passed as function argument

6. How will you print \n on the screen?

    (a) printf("\n");   (b) echo "\\n";   (c) printf('\n');   (d) printf("\\n");

7. Void add(int a, int b){} represents

    (a) No argument No return type   (b) No argument with return type

    (c) With arguments no return type   (d) None of the above

8. A pointer is

    (a) Keyword used to create variables   (b) Variable stores the address

    (c) Variable stores the value   (d) None of the above

9. In Structure, how the memory is allocated for its members

    (a) Separate   (b) Common

    (c) No Memory   (d) None of the above

10. How many arguments needed for *fseek()* function

    (a) 1   (b) 2   (c) 3   (d) 4

PART - B (5 x 2 = 10 Marks)

11. What are the steps to solve the problem in a computer system?

12. What is meant by Enumerated data type?

13. Mention the various String Manipulation Functions in C.

14. Distinguish between Call by value and Call by reference.

15. What is a pointer? What its uses?

PART - C (5 x 16 = 80 Marks)

16. (a) Elaborate on different generations and classifications of Computers.   (16)

                                 Or

  (b) (i) Explain the various phases involved in problem solving.   (8)

       (ii) With suitable example explain the need for flowchart.   (8)

17. (a) (i) What are Operators and operands? Mention various types of operators in C. (10)

(ii) Write a C program to find given year is leap year or not. (6)

Or

(b) Describe the different types of operators available in C. (16)

18. (a) Define array. Discuss about array initialization, declaration, access elements with example (16)

Or

(b) (i) Write a C program to find whether the given word is palindrome. (8)

(ii) Write a program to add two N x N matrices. (8)

19. (a) (i) Write a C program to print Fibonacci series using recursive functions (8)

(ii) Explain about different parameter passing methods in C with example. (8)

Or

(b) With suitable examples discuss the need and usage of pointers. (16)

20. (a) What is the difference between structures and unions? With suitable examples substantiate the above point. (16)

Or

(b) Write a C program for payroll application using structures with 'e' or "e[10]" as structure variable. (16)

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