Reg. No. : | | | | | | | | | | |

Question Paper Code: 41206

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

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. Which of the following is responsible for controlling all the operations of all other units of a computer system.

   (a) CPU (b) ALU (c) GPU (d) MU

2. Which of the following provides step by step procedure for solving the problem.

   (a) Flowchart (b) Algorithm (c) Program (d) Pseudo code

3. Which of the following are token in C?

   (a) Keywords (b) Variables (c) Constants (d) All the Above

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. Given the statement, maruti.engine.bolts=25, which of the following is true?

(a) Structure bolts is nested within structure engine
(b) Structure engine is nested within structure maruti
(c) Structure maruti is nested within structure engine
(d) Structure bolts is nested within structure bolts

10. calloc ( ) takes____ number of arguments.

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

PART - B (5 x 2 = 10 Marks)

11. Define: Algorithm and Pseudo code.

12. What is meant by Enumerated data type?

13. Give any two functions related to string handling.

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) Explain the basic organization of computer with suitable block diagram. (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) Explain the types of branching statements with syntax and example. (8)

(ii) Write a C program to find Armstrong number. (8)

Or

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

18. (a) (i) Write a program using pointers to read an array of integers and print its elements in ascending order. (8)

(ii) With suitable examples explain the string handling functions. (8)

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) Explain function prototypes with syntax and examples. (16)

Or

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

20. (a) Write a C program for library management using structures and unions. (16)

Or

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