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**Reg. No. :**

**Question Paper Code: 41026**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

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. The capacity of 3.5 inch floppy drive is

(a) 1.40 *MB* (b) 1.44 *MB* (c) 1.44 *GB*  (d) 1.40 *GB*

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. 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. Which of the following is not a built in functions in C?

(a) getchar (b) putchar (c) gets (d) get\_ select\_str

7. malloc () function used in dynamic allocation is available in which header file?

(a) stdio.h (b) stdlib.h (c) conio.h (d) mem.h

8. What is (void\*)0?

(a) Null pointer (b) Void pointer (c) New pointer (d) All the Above

9. How will you free the allocated memory?

(a) remove (var-name); (b) free(var-name); (c) delete(var-name); (d) dalloc(var-name);

10. Which of the following are themselves a collection of different data types?

(a) String (b) Structure (c) Char (d) All the above

PART - B (5 x 2 = 10 Marks)

11. Define: Algorithm and Pseudo code.

12. What is the importance of keywords in C.

13. Give any two functions related to string handling.

14. How strings are represented in Language C?

15. Write the roles of preprocessor directives?

PART - C (5 x 16 = 80 Marks)

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

(b) Explain in detail about various classification of computer with suitable examples. (16)

17. (a) (i) Write a C program to reverse digits of a given number (8)

(ii) Explain about various looping statements in C and compare them. (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) Write a C program to find max / min of an array and perform linear search. (16)

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

Or

(b) Discuss about dynamic memory allocation in detail. (16)

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

Or

(b) (i) Explain in detail on preprocessor directives in C. (10)

(ii) State the need and operation of union with suitable example. (6)