Reg. No. :

B.E. / B.Tech. DEGREE EXAMINATION, MAY 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. A computer assisted method for the recording and analyzing of existing or hypothetical systems is

    (a) Data transmission   (b) Data flow
    (c) Data capture   (d) Data processing

2. What difference does the 5th generation computer have from other generation computers?

    (a) Technological advancement   (b) Scientific code
    (c) Object Oriented Programming   (d) All the Above

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. Which of the following function sets first n characters of a string to a given character?

    (a) strinit( )   (b) strnset( )   (c) strset( )   (d) strcset( )

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

    (a) getchar   (b) putchar   (c) gets   (d) get_ select_str

7. The keyword used to transfer control from a function back to the calling function is

    (a) switch   (b) goto   (c) go back   (d) return

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. Differentiate between primary memory and secondary memory.

12. What is the importance of keywords in C.

13. Write a program in C to get ten numbers and print the same numbers in reverse order.

14. How strings are represented in Language C?

15. Define preprocessor and list out its types.

PART - C (5 x 16 = 80 Marks)

16. (a) Explain the basic organization of computer with suitable block diagram.   (16)

Or

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

                                                              (16)

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

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

18. (a) Write a C program to perform matrix Addition and transpose of a matrix. (16)

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) (i) Explain about (1) the rules for pointers arithmetic (2) Arrays of pointers. (8)

(ii) Write a C program to simulate a simple storage mechanism like either stack or queue using dynamic memory allocation methods. (8)

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)

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