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 **Reg. No. :**

**Question Paper Code: 31026**

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

First Semester

Civil Engineering

01UCS106 - COMPUTER PROGRAMMING

(Common to ALL Branches)

 (Regulation 2013)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What are super computers?

2. Convert binary number 100110 into its octal equivalent.

3. What are the types of control structures in C?

4. Write a C program to print numbers from 1 to 100 using for loop.

5. What is an array?

6. How strings are represented in C language?

7. What are pre-defined functions? Give example.

8. What is pointers?

9. Define structure.

10. What are the advantages of unions over structures?

PART - B (5 x 16 = 80 Marks)

11. (a) Explain about the various generations of computers in detail. (16)

Or

(b) Discuss about the program control structure and program paradigms in detail. (16)

12. (a) Explain the structure of a C program. (16)

Or

(b) Explain the decision making and branching statements in detail with example programs. (16)

13. (a) (i) Write a C program to perform matrix multiplication. (10)

 (ii) Write a C program to perform bubble sort. (6)

Or

(b) Explain bubble sort with an example. (16)

14. (a) (i) Discuss about the classification of functions depending upon their input and output parameters. (12)

 (ii) What are the applications of recursive function? (4)

Or

 (b) Explain function prototypes in detail with example program. (16)

15. (a) What are pre-processor directives? Explain any four directives with example. (16)

Or

 (b) Develop a C program using structures to prepare the students mark statement. (16)