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Question Paper Code: 31216

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

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. Define Pseudo code.
3. Explain the structure of a C program.
4. Write a C program to print numbers from 1 to 100 using for loop.
5. List some of the string functions with syntax.
6. Define one dimensional array with example.
7. Define dynamic memory allocation.
8. What is pointers?
9. Define nested structure.
10. Differentiate Structure and Union.

PART - B (5 x 16 = 80 Marks)

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

Or

(b) Write an algorithm, flowchart and pseudo code to find the sum of digits of an integer. (16)

12. (a) Explain in detail the various operators and expressions in C language with example. (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 in detail about the string operations using built-in string functions in detail. (16)

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

Or

(b) (i) Write a C program for Pass by value and Pass by reference. (8)

(ii) Explain Pointer arithmetic in detail. (8)

15. (a) Write a C program to read n employee details and calculate salary details for each employee and display it. (16)

Or

(b) Explain the following in detail

(i) Storage classes (8)

(ii) Pre-processor directives (8)