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

Question Paper Code: 51206

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

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 is an algorithm?
2. What are the advantages and disadvantages of flow charts?
3. What is ternary operator? Give an example.
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 is recursion?
8. What is pointers?
9. Define nested structure.
10. Differentiate Structure and Union.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain the generation of Digital computers in detail. (16)

Or

(b) Write the algorithm and pseudo code for finding factorial of a given number. Also draw its corresponding flowchart. (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 in detail about the string operations using built-in string functions in detail. (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 in detail about dynamic memory allocation and compare with static memory allocation. (16)

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)