Reg. No. : ☐☐☐☐☐☐☐☐☐☐

Question Paper Code: 31206

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 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. Define Pseudo code.

2. List the types of number systems.

3. What is ternary operator? Give an example.

4. Define an identifier.

5. Define One-Dimensional array.

6. Define strrev( ).

7. What is recursion?

8. How will you declare a function?

9. Define union

10. What are the different file access modes in C?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Explain the different generations of computers.   (8)

        (ii) Classify the different types of computer based on various categories.   (8)

Or

(b) Write the algorithm and pseudo code for finding factorial of a given number. Also draw its corresponding flowchart. (16)

12. (a) (i) With suitable examples, explain various types of operators available in C language. (10)

(ii) Explain switch case with suitable example. (6)

Or

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

13. (a) Depict how to declare and initialize multidimensional arrays. Also write a C program to subtract 3x3 matrices. (16)

Or

(b) Explain in detail about the string operations using built-in string functions in detail. (16)

14. (a) (i) Differentiate pass by value with pass by reference. (8)

(ii) Write a function namely sum that accepts three arguments and return the result. Call this function from main function. (8)

Or

(b) Explain in detail about dynamic memory allocation and compare with static memory allocation. (16)

15. (a) (i) Describe structure data type with neat examples and compare it with unions. (10)

(ii) Write a C program to create a class student which contains sno, sname, dept, dob. Also read and display them. (6)

Or

(b) Write a C program that will receive a filename and a line of text as command line arguments and write the text to a file. (16)

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