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Question Paper Code: 11006

B.E./B.Tech. DEGREE EXAMINATION, DECEMBER 2013.

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. How will you classify computers?
2. Differentiate algorithm and flow chart.
3. What is symbolic constant?
4. Distinguish between while and do...while statement.
5. Write any four features of an array.
6. How will you compare two strings?
7. Specify the importance of main function.
8. How is a pointer initialized?
9. What is meant by nested structure?
10. Write the significance of EOF.

PART -- B (5 x 16 = 80 Marks)

11. (a) (i) Describe the evolution of computers. (8)
(ii) With suitable example, explain the different types of number systems. (8)

Or

- (b) Diagrammatically illustrate and discuss the basic computer organization. (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) A class of 'n' students take an examination in 'm' subjects. Write a C program to read the marks obtained by each student in various subjects and to compute and print the total marks obtained by each of them. (16)

13. (a) (i) What is a two-dimensional array and how to declare and initialize a two – dimensional array in C? (8)
- (ii) Write a C program to sort a set of 10 numbers in descending order. (8)

Or

- (b) (i) Write a program which will read a text and count all occurrences of a particular word. (10)
- (ii) Write a program to copy the contents of one array into another in the reverse order. (6)

14. (a) (i) Discuss about any 8 built-in functions. (8)
- (ii) Write a function power that computes x raised to the power 2 for integer x . (8)

Or

- (b) Write a function to calculate the sum of digits of the four digit number using recursion and without using recursion. (16)

15. (a) (i) Write a simple program to illustrate structures. (10)
- (ii) Write short notes on Storage class in C. (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)