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K 4316

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2009.

First Semester

(Regulation 2004)

Civil Engineering

GE 1102 — FUNDAMENTALS OF COMPUTING

(Common to all branches of B.E./B.Tech. Except Marine Engineering)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List a few characteristics of computers.
2. Which number system is optimally suitable for memory address representation?
3. What is meant by system software?
4. What does ASCII stand for?
5. What is the advantage of pseudocode?
6. How are cells in spread sheet addressed?
7. What are the roles of << and >> operators in C?
8. Compare 'if' statement with 'switch' statement.
9. Differentiate a pointer to structure from a pointer to integer.
10. How are strings stored in C language?

PART B — (5 × 16 = 80 marks)

11. (a) Discuss the various classifications of computers. (16)

Or

- (b) With a neat block diagram explain the organization of a computer system. (16)

12. (a) With suitable examples, explain the arithmetic operations addition, subtraction, multiplication and division using binary number system. (16)

Or

- (b) Explain the various steps in the software development life cycle. (16)

13. (a) (i) Write an algorithm to find the maximum among the given three numbers. Draw a flowchart for your algorithm. (10)

- (ii) List the general characteristics of writing Pseudocode. (6)

Or

- (b) (i) Explain the creation of tables and operations that can be performed on the table using word processor. (8)

- (ii) Briefly explain the use of spread sheet as an accounting software. (8)

14. (a) Explain the data types, operators with precedence and expressions in C language. (16)

Or

- (b) With examples, explain the statements used for selection, and iteration in 'C'. (16)

15. (a) Write a program in C to find the first and second biggest element from the given array of integers. (16)

Or

- (b) Write a program in C that reads a list of student records and count the number of male students in the list. (16)