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Question Paper Code : 71644

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

First Semester

Civil Engineering

GE 2112/CS 16/080230001 — FUNDAMENTALS OF COMPUTING AND
PROGRAMMING/FUNDAMENTALS OF COMPUTING AND COMPUTER
PROGRAMMING

(Common to All Branches)

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Convert binary number 1100101 in to Decimal Number.
2. What are the two methods for checking parity?
3. List any two types of software.
4. Define Internet.
5. What is Pseudo code?
6. Difference between while and Do-While Loop.
7. How to declare a integer, character array and float variables?
8. Define decision making.
9. Define Array
10. What is the use of pointer?

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail about basic computer organization with a neat sketch. (16)

Or

- (b) What are the applications of computer? Discuss in detail about classification of computers. (16)

12. (a) Define software. Explain in detail about steps involved in software development. (16)

Or

- (b) Explain in detail about internet evolution. (16)

13. (a) (i) Draw the flow chart for finding a biggest number from the three Numbers. (8)

- (ii) Write the pseudo code and algorithm for find whether the given number is odd or even. (8)

Or

- (b) What is package? Explain in detail about any two application software packages. (16)

14. (a) What are the categories of operators in 'C'? Discuss any two operators with suitable programs. (16)

Or

- (b) (i) Write a 'C' program to generate Fibonacci series for a given number. (8)

- (ii) Write a 'C' program to find a factorial of a given number. (8)

15. (a) Write a 'C' program to generate student mark sheet using structure. (16)

Or

- (b) (i) Difference between call by value and call by reference. (5)

- (ii) Write a 'C' Program to find addition of two matrices. (11)