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Question Paper Code : 21644

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 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)

(Regulations 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List the factors needed to classify computers.
2. Write first ten numbers in radix 4 number system.
3. What are the various types of software?
4. What is a protocol?
5. What is pseudo code?
6. Difference between while and Do-While Loop.
7. What are the main feature and applications of C language?
8. Write a code segment using while statement to print numbers from 10 down to 1.
9. What is array?
10. How is a pointer variable initialized?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the following :
- (i) Organization of a computer. (4)
 - (ii) Input unit. (4)
 - (iii) Central processing unit. (4)
 - (iv) Output unit. (4)

Or

- (b) Explain the different components of a computer system with a block diagram. (16)
12. (a) (i) Explain in detail the types of computer software. (8)
- (ii) Explain in detail the various steps involved in Software Development. (8)

Or

- (b) (i) Explain the common types of internet access. (6)
- (ii) Write short notes on web browser. (5)
- (iii) Explain a typical structure of URL. (5)
13. (a) (i) Draw the flowchart for finding the roots of a quadratic equation. (8)
- (ii) Write an algorithm to find the largest of three numbers. (8)

Or

- (b) Discuss in detail about the features of office 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) (i) Write a C program to find sum of the diagonal elements of a matrix. (10)
- (ii) Write a C program to count the number of words in a string using pointers. (6)

Or

- (b) (i) Explain the various storage classes in C. (8)
- (ii) Write a C program to exchange the values of two variables using function. (8)