

B.E / B.Tech. DEGREE EXAMINATION, APRIL / MAY 2012

FIRST SEMESTER

R-2008

[COMMON TO ALL BRANCHES OF B.E / B.Tech. PROGRAMMES]

GE9112: FUNDAMENTALS OF COMPUTING

Time: Three Hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

PART A – (10 X 2 = 20 Marks)

1. What is an operating system?
2. Define a computer network.
3. What is multimedia?
4. Define a database management system.
5. What is a data type? Give examples.
6. List the arithmetic operators in 'C' language.
7. Define an array. Give example.
8. What is a function?
9. State the purpose of switch case statement.
10. Under what circumstances a break statement is used?

PART B – (5 X 16 = 80 Marks)

11. With diagrammatic illustration explain the basic computer organisation. (16)
12. a. What is internet? List and discuss the most commonly used internet services. (16)

(OR)

- b. Discuss the systems development life cycle for programming. (16)
13. a. i. Explain the structure of a 'C' program. (8)
- ii. Write a program to find and print the greatest of three numbers. (4)
- iii. Write a program to check and print whether a given number is an even number or an odd number. (4)

(OR)

- b. Write a 'C' program to add two matrices and print the result. (16)

14. a. With syntax and examples discuss the following decision making and looping statements:

i. The while statement (5)

ii. The do statement (5)

iii. The for statement (6)

(OR)

b. Write a 'C' program to sort 'N' numbers in ascending order. (16)

15. a. i. Write a 'C' program to find the factorial of a given number using functions. (6)

ii. Write a 'C' program to find the transpose of a given matrix using functions. (10)

(OR)

b. With examples discuss the following:

i. Call by value (8)

ii. Call by reference (8)
