

16/5/13

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B.E. / B.Tech (Full Time) DEGREE EXAMINATIONS, April/May 2013

First Semester
Common to All Branches

GE 9112 - FUNDAMENTALS OF COMPUTING

(Regulation 2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART- A (10 x 2 = 20 Marks)

1. Write the four major components of a typical computer system.
2. Write any two networking components
3. What is "www" ?
4. Write any two productivity software
5. What is the output of a following :

```
main()
{
int a=23, b;
float c;
b = a % 4 + 5 / 2 ;
c = a / 4 + 5 % 2 ;
printf ("\n%d : %f", b, c);}
```

6. Give an example for any unary operator.
7. How to store more than one values to a single variable?
8. What is the role of "break" in "switch-case" statement ?
9. What is the difference between static & dynamic memory allocations ?
10. What is the difference between the two statements, "a *= 5" and "*a = 5" ?

PART – B (5 × 16 = 80 Marks)

11. i) What are the various types of memory used in a computer system. Describe in detail with memory hierarchy. (10)
- ii) What are the functions of an operating system. (6)
12. a) i) List and explain the services provided by internet (8)
- ii) Write any four "functions" available in a spread sheet software (8)

(OR)

b) Define Database Management system. Explain the components of DBMS with example. (16)

13. a) What are the basic data types available in 'C'? Explain each with size, compatible operators and precedence, by illustration. How "long", "short", and "double" are used with these basic data types? (16)

(OR)

b) i) Write a C program to the greatest and smallest number from a given set of numbers without using array. (16)

ii) Write a C program to check whether a given integer number is prime number. (6)

14. a) Write a C program to check whether two two-dimensional arrays are compatible to multiply. Complete the program to find the product and display the result. Illustrate the operation with example. (16)

(OR)

- b) i) Explain the usage of following string functions with example :
strcat, strcpy, strlen, strchr (8)
- ii) Write a C program to check whether a given word is palindrome
or not . (8)

15. a) i) What is preprocessor directive ? List and explain any two with
example (8)
- ii) When the structure variables are find useful? Illustrate a
structure variable. (8)

(OR)

- b) i) Write short note on pass by value and pass by reference in
function with example. (8)
- ii) How the pointer variables different from other variables. Explain.
(8)
