

B.E/ B.TECH. DEGREE EXAMINATIONS: NOV/DEC 2010

First Semester

U07GE102: FUNDAMENTALS OF COMPUTING

(Common to all)

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 1 = 10 Marks)

1. UNIVAC is an example of which generation computer
A) First B) Second C) Third D) Fourth
2. Which of the following is system software?
A) Microsoft Word B) Adobe Photoshop C) Microsoft PowerPoint D) Windows 98
3. The group formed for the discussion on a particular subject is known as
A) News Forum B) News Group C) News Guide D) News Channel
4. Choose the odd one out
A) Abstraction B) Encapsulation C) Inheritance D) Linking
5. What is the output of following program?

```
#include<stdio.h>
void main( )
{
    int c,i=5;
    c=i++;
    printf(“%d , %d”,i,c);
}
```


A) 5 , 5 B) 5 , 6 C) 6 , 5 D) None of the above
6. What is the output of following program?

```
#include<stdio.h>
void main( )
{
    int b,i=0;
    for(;i<=5;)
    {
```

```
printf(“%d,”,i);  
i+=2;  
}  
}
```

- A) Error B) 0,1,2,3,4,5, C) 0,2,4, D) 0,2,4

7. By default the function returns

- A) integer value B) float value C) char value D) none of the above

8. If a storage class is not mentioned in the declaration, then default storage class is

- A) automatic B) static C) external D) register

9. Which of the following statement is true after execution of the following program?

```
int a[5] = { 2 , 3 } , *c;  
c=a;  
(*c) - -;
```

- A) value of a[0] will be 1 B) value of a[0] will be 2
C) value of a[1] will be 2 D) None of the above

10. The typedef statement is used for

- A) declaring user-defined data types B) declaring variant variables
C) for typecasting of variables D) none of the above

PART B (10 x 2 = 20 Marks)

11. List out the characteristics of computers.
12. What is system software? Give any two system software.
13. Define URL? Write its structure.
14. Illustrate the program development cycle.
15. Write a C program to multiply the given number by two without using arithmetic operator.
16. Write the difference between getch() and getche() function.
17. What are actual and formal arguments?
18. Write a C program to read string from a character array.
19. Define pointer? Write any two features of pointers.
20. What is pointer to pointer? Give example.

PART C (5 x 14 = 70 Marks)

21. a) Explain in detail about the generations of computers. **(OR)**
b) Describe classifications of computers.

22. a) Explain the following
- (i) Components of Information Technology (6)
 - (ii) Internet Services (8)
- (OR)**
- b) (i) Write notes on guidelines for preparing flowchart. (6)
- (ii) Give the flowchart and pseudocode for various program control structures. (8)
23. a) Explain the following
- (i) Relational operators (6)
 - (ii) Formatted I/O functions (8)
- (OR)**
- b) Write a C program to print the following number patterns
- (i) 1 (7)
 - 2 2
 - 3 3 3
 - 4 4 4 4
 - (ii) 1 (7)
 - 2 3
 - 4 5 6
 - 7 8 9 10
24. a) Explain types of functions with example. **(OR)**
- b) (i) Write a C program to create transpose of a given matrix. (10)
- (ii) Explain any two string handling functions. (4)
25. a) Write notes on following
- (i) Arithmetic operations with pointers (8)
 - (ii) Arrays of pointers (6)
- (OR)**
- b) Write notes on following
- (i) Structure within structure (8)
 - (ii) Arrays of structures (6)
