

FCP-2011-1 MAY

Roll No.

Total Pages : 3

Exam. Code

6022

8079

BT-2/M-11

FUNDAMENTALS OF COMPUTERS AND
PROGRAMMING IN 'C'

Paper : CSE-101(E)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *five* questions in all, selecting at least *one* question from each unit.

UNIT-I

1. (a) What is Operating system & its services ? 6
(b) Compare LINUX & Window 2000. 6
(c) Explain Cache memory, Primary memory & Secondary memory hierarchy. 8
2. (a) Convert hexadecimal into binary :
2CF.A
309.5
8CF
BAE. 6
(b) Explain the working of UNIX & its important features. 6
(c) What do you mean by Error detection and Error correction technique ? 8

UNIT-II

3. (a) Differentiate between Syntax, Linking & Logical Errors in details. 10
(b) What is Loader and its types ? 5
(c) Differentiate between Compiler & Interpreter. 5

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4. (a) Explain Machine language, Assembly language & High-level language in detail. 10
(b) Differentiate between FTP and Telnet. 5
(c) Differentiate between Algorithm and Flow chart. 5

UNIT-III

5. (a) What is main() and role of main() in the compilation and linking process ? 5
(b) What is Function prototyping and its significance to compiler ? 5
(c) Write a program to display first 20 prime numbers. 10
6. (a) Differentiate between Formatted I/O and Unformatted I/O. 6
(b) What are Command line arguments in C ? Write a program to calculate power of a given number (n^p) using command line arguments (pass n and p from command prompt). 10
(c) What do you mean by scope and life of different classes of a variable ? 4

UNIT-IV

7. (a) Write the output of the following code :
(i)

```
int i;  
for (i = 0, i ≤ 10, i--)  
    printf("%d", i);
```


(ii)

```
int i;  
for (i = 0; i ≤ 10; i++)  
    printf("%d", i);
```

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(iii) `int x = 10;`
`while (x = 5)`
`printf("within loop");`
`printf("out of loop");`

6

(b) Compare Structure with Union.

6

(c) Explain `strcpy()`, `strcmp()`, `getche()`, `getchar()`.

8

8. Write short notes on the following :

(a) File I/O and console I/O.

(b) `fopen()` and `fclose()`.

(c) Enumerate Data types.

(d) Bitwise operators in C.

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