



SEM 2 – 3 (RC 07 – 08)

F.E. (Semester – II) (RC) Examination, Nov./Dec. 2016  
INFORMATION TECHNOLOGY

Duration : 3 Hours

Total Marks : 100

**Instruction :** Answer **any five** question by selecting at least **one** question from **each** Module.

MODULE – 1

1. a) Distinguish between DRAM and SRAM. 3  
b) Explain the Input components of a computer. 8  
c) Explain the following LINUX commands. 4  
i) cd ii) pwd iii) mv iv) ls  
d) Write a short note on Domain name. 5
2. a) Explain the following : 3  
i) RAM ii) ROM iii) PROM  
b) Briefly explain the following terms with respect to computer. 4  
i) Word length ii) Storage iii) Versatility iv) Speed  
c) Write a short note on Spamming. 5  
d) Describe some salient features of DOS and LINUX operating system. 8

MODULE – 2

3. a) Differentiate between machine languages and assembly languages. 5  
b) Write an algorithm and draw the flowchart to find whether the given number is a palindrome or not. 8  
c) State and explain characteristics of data present in the database. 7
4. a) Explain briefly any four database models. 8  
b) Write an algorithm and draw the flowchart to find whether the given number is even or odd. 6  
c) Explain any two generations of high level languages. 6

P.T.O.





## MODULE – 3

5. a) Differentiate between for and while loop. (One point of difference should be Example).

5

b) Write C program to display following pattern.

7

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

```

c) Explain with example do ... while loop.

4

d) Write the following using conditional operator.

4

i)  $Y = 1.5x + 3$  for  $x \leq 2$

$Y = 2x + 5$  for  $x > 2$

ii) if  $(x < 0 \ \&\& \ x \geq 50)$

flag = 0;

else

flag = 1;

6. a) Write a C program to produce following :

6

```

1
0 1
1 0 1
0 1 0 1
1 0 1 0 1

```

b) Write short notes on keywords and variable in C.

4

c) Explain Logical operators in C with example.

4

d) Point out the errors, if any else write the output

6

i) #include <stdio.h>

int main ()

{

char ch ;

int i ;

scanf ("%C", &i) ;

scanf ("%d", &ch) ;

printf ("%C %d", ch, i) ;

return 0 ;

}





ii) #include <stdio.h>

int a main ()

{

int i == 1 ;

for(;;)

{

print ("%d\n", i ++);

if (i > 10)

break;

}

return 0 ;

}

iii) #include <stdio.h>

int main ()

{ int i ;

for(i = 10 ; i <= 15 ; i ++)

{

while (i)

{

do {

printf ("%d", i) ;

if (i >> 1) .

continue ;

} while (0) ;

break ;

}

}

return 0 ;

}





## MODULE – 4

7. a) Explain the following string functions with examples. 6
- i) strncpy
  - ii) Strlen
  - iii) strstr
- b) Differentiate between Internal and External Variables (one point should be example). 6
- c) Write C program to delete the specified element from an array and also display the array after deletion. 8
8. a) Explain following Input/Output functions with example. 6
- i) fopen
  - ii) rewind
  - iii) fgetc
- b) Explain the concept of Call by Value and Call by Reference with an example. 6
- c) Write a C Program to count number of characters, Tabs and newlines in the file. 8
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