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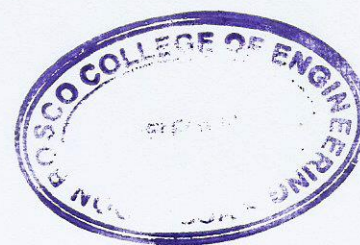
**F.E. Semester-II (Revised Course 2007-2008)**  
**EXAMINATION Nov/Dec 2019**  
**Information Technology**

**[Duration : Three Hours]**

**[Total Marks : 100]**

- Instructions:**
1. Attempt any five questions by selecting at least one question from each module.
  2. Make suitable assumptions if required.

No.	Module I	Marks
1	a Explain different input devices with example	6
	b Compare the following operating system s: i) DOS ii) Windows iii) Linux	6
	c Describe ring topology with diagram	6
	d Distinguish between DRAM and SRAM	2
2	a Describe the working of e-mail. Explain spamming in that context.	10
	b Explain the client server architecture with the help of a diagram. State advantages and limitations of the same.	6
	c What is domain name and IP address	4
	<b>Module II</b>	
3	a Explain the database models.	7
	b Describe steps involved in compilation with diagram.	7
	c Different between assembly level languages and high level languages.	6
4	a Describe the functions of an assembler, interpreter and compiler.	8
	b What are the benefits of using database management system	4
	c Write an algorithm and draw a flowchart to find functional of a number	8





## Module III

- 5 a Describe different data types supported in C language 5
- b Write a program to find smallest among three numbers using nested if-else. 6
- c Write a C program to check if number entered is prime number or not. 5
- d Find the output of the following codes: 4

<pre>#include&lt;stdio.h&gt;  int main () { int a=4, b,c;  b--a;  c=a--;  printf("%d %d %d\n", a, b, c);  return 0;  }</pre>	<pre>#include&lt;stdio.h&gt; void main() { int a=2,b=1; a*=a+b; printf("%d\n", a); }</pre>
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- 6 a Differentiate between break and continue giving an example. 4
- b Write a C program to accept 'n' numbers from the user and count how many of them are divisible by 2 4
- c Write a C program to design a calculator with basic operations using switch. 6
- d Find the output of the following codes: 6

<pre>#include&lt;stdio.h&gt;  void main () { int a;</pre>	<pre>#include&lt;stdio.h&gt;  int main () { int a=4,b=3, c=2, d=1;</pre>
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<pre> for(a=0;a&lt;10;a++) { printf("@");      if(a&gt;6)          continue;  printf("%d\n", a);  }  } </pre>	<pre> printf("%d", a*b/c-d); printf("%d", a * b/(c - d));  return 0;  } </pre>
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**Module IV**

- 7 a Explain the following with examples: 5
- Function declaration
  - Function definition and function call
- b Write a C program to insert element at a given position in 1D array 6
- c Write a C program to multiply two matrices 6
- d Find the output of the following: 3

```

#include<stdio.h>
void abc()
{
int x=4;
int y;
y=++x*x*2;
printf("%d\n", y);
}
void main ()
{
    int x=5;
    x=++x;
    abc();
    printf("%d", x);
}

```



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|---|---|--|---|
| 8 | a | Write a C program to create a user defined function called square to find square of a number | 5 |
|   | b | Write a C program to delete an element in a 1D array   | 5 |
|   | c | Differentiate between call by value and call by reference                                    | 5 |
|   | d | Illustrate reading from a file using C program   | 5 |