

F.E. (Semester – II) (RC 2007 – 08) Examination, May/June 2018 INFORMATION TECHNOLOGY

Duration: 3 Hours Total Marks: 100

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

MODULE - I

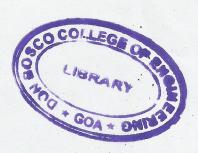
		6) Validity/Integrity.	
)	1. a)	Explain the following:	5
	3	1) Central processing unit.	A
		2) Control unit.	
		3) Arithmetic and logic unit.	
		4) Memory State 1919 of the flower is waite one multiplicate his entitle to	
		5) Registers.	
	b)	Write a short note on CD-ROM.	4
	c)	Define any five characteristics of monitors.	5
	d)	Explain multi-user, multi-processing and real-time operating systems.	6
	2. a)	State various advantages and disadvantages of Disk Operating System (DOS).	3
	b)	Define topology. Explain briefly any one of the topology.	5
	c)	Explain URL with an example.	5
	d)	Explain electronic mail.	5
	e)	Explain WWW.	2
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MODULE - II

3	a)	What is DBMS? Explain any two database models.	7
	b)	Explain the following characteristics of the data present in the data.	7
		1) Shared	
		2) Persistence	
		3) Security is politicated at another and such time now and a mediantical at a second such as the second suc	
		4) Consistency	
		5) Non-redundancy	
		6) Validity/Integrity.	
	c)	What is an assembler, compiler and a interpreter?	6
4.	a)	Define and explain algorithm and flowchart.	6
	b)	Write an algorithm and draw a flowchart to find sum of even and odd n	
		between 1 to N.	7
	C)	Write an algorithm and draw a flowchart to generate required number.	7
With .	Ġ.	MODULE - III	
5.	a)	Explain with a flowchart the process of compiling and running a C program.	5
	b)	What are different syntax rules for Identifiers?	5
	c)	What is exam? Explain with an example.	5
	d)	Evaluate the following expressions:	
		$x_1 = (-b + \text{sqrt } (b*b - 4*a*c))/(2*a) \text{ assuming } a = 1, b = -5 \text{ and } c = 6.$	5
6.	a)	Explain how input of integer numbers is performed in a C program.	4
	b)	What is the output of the following codes? (3×2=	=6)
19		i) # include < stdio.h > # include < conio.h >	
		void main()	
		int i;	
· ·		almant).	
,		i = printf("computer");	
		printf("%d", i);	

```
ii) # include < stdio.h >
    # include < conio.h >
    void main()
{
    int varl = 15, varz = 10, p, q;
    clrscr();
    p = varl > 14;
    q = varl > 8 && varz == 8;
    printf("p = %d", P);
    printf("q=%d", q);
}
iii) # include < stdio.h >
    # include <conio.h>
    void main ()
{
    int flt = 15, g = 10;
    printf ("%d\n", flt<<z);
    printf ("%d\n", flt%g);
}</pre>
```



- c) Write a C program using switch-case construct to do the following:

 When user enters 0 calculate area of circle

 When user enters 1 calculate area of a square
- d) Write a C program using do while loop to accept a character from the user and print the corresponding ASCII value.

MODULE - IV

- 7. a) Explain the general syntax of the function definition. 5
 - b) Illustrate with an example nesting of functions.
 - c) What are the rules to be followed while passing 2D arrays to functions?
 - d) Define scope, visibility and lifetime of variables.
- 8. a) Explain how initialization of 1D array is performed at the two stages. 7
 - b) Write a C program using functions to generate fibonacci sequence of n terms.
 - c) Illustrate reading from and writing to a file.