



P.T.O.

## F.E. Semester - II Examination, November 2009 3. a) What is DBMS? Expla(80-7002 ni basivaR) dels.

INFORMATION TECHNOLOGY	
001: skraM latoT shared following characteristics of the data present in the database.  10 shared standard following characteristics of the data present in the database.	0
Instructions: i) Answer any five questions with atleast one question from each	
3) Security	
ii) Assume necessary data.  (b) Consistency (4)	
5) Non-redundancy I – JUDOM	
(a) Validity/Integrity.  1. a) Explain the following:	5
Dentral processing uniterpretate and a interpretation gnize and a second compiler and a interpretation gnize and a second compiler and a interpretation of the compiler and a interpretation of the compiler and a second compiler and a interpretation of the compiler and a second comp	
4. a) Define and explain algorithm and flowchart. tinu lortno) (2	
b) Write an algorithm and draw a flowchart to tinu sigol bns sitements (6 phors	
between 1 to N. (4)	
c) Write an algorithm and draw a flowchart to generate required number of terms of the fibonacci sequence.	
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).	2
<ul> <li>c) What is exam? Explain with an example.</li> <li>d) Evaluate the following expressions:</li> </ul>	3
c) Explain URL with an example. $(2*8)/(2*8)$ square $(2*6)$ and $(2*6)$	5
assuming $a = 1$ , $b = -5$ and $c = 6$ .  (b) Explain electronic mail	5
6. a) Explain how input of integer numbers is performed in a C program.  .WWW nialqx3 (9)	5





II - 3 JUDOM F.E. Semester - II Examination, November 2009

- 3. a) What is DBMS? Explain any two database models.
  - b) Explain the following characteristics of the data present in the database.
    - 1) Shared
    - 2) Persistence and translated with an engine questions with atleast one and entire and a second control of the control of the
    - 3) Security
    - 4) Consistency
    - 5) Non-redundancy
    - 6) Validity/Integrity.
    - c) What is an assembler, compiler and a interpreter?
  - 4. a) Define and explain algorithm and flowchart.
    - b) Write an algorithm and draw a flowchart to find sum of even and odd numbers between 1 to N.
    - c) Write an algorithm and draw a flowchart to generate required number of terms of the fibonacci sequence.

## MODULE - III

- 5. a) Explain with a flowchart the process of compiling and running a C program.
  - b) What are different syntax rules for Identifiers?
  - c) What is exam? Explain with an example.

    (d) What is exam? Explain with an example.
  - d) Evaluate the following expressions:  $x_1 = (-b + \text{sqrt } (b*b 4*a*c))/(2*a) \text{ aligness are this ARU mislax! (a assuming a = 1, b = -5 and c = 6.}$
  - 6. a) Explain how input of integer numbers is performed in a C program.



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(3 \times 2 = 6)
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b) What is the output of the following codes?
   i) # include <stdio.h>
      #include <conio.h>
      void main()
       int i
       clrscr();
       i = printf("computer");
       La) Explain the general syntax of the function definition; (i, "b%") thiriq
   ii) # include <stdio.h>
       # include <conio.h>
       d) Define scope, visibility and lifetime of variables. Explair() niam biov
       intvarl = 15, varz = 10, p, q;
                          a) Explain how initialization of 1D array is performed
       clrscr();
       b. Write a C program using functions to generate libonacci s; 11 < frage
       c) Illustrate reading from and writing to a file:8== zrav &&8 < lrav = p
       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);
```





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- c) Write a C program using switch-case construct to do the following When user enters 0 -calculate area of a 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.
  - 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. Explain these attributes for automatic and static variables.
- 8. a) Explain how initialization of 1D array is performed at the two stages.
  - b) Write a C program using functions to generate fibonacci sequence of n terms.
  - c) Illustrate reading from and writing to a file.

 $\operatorname{printf}(``q = \%d", q);$ 

# include <conio

int fit = 15, g = 10; grint ("%), fit<

printf ("%d\n", flt%g);