DIPLOMA IN COMPUTER SCIENCE AND $\forall \quad$ TECHNOLOGY (DCSVI) June, 2011

## BICS-030 : 'C' PROGRAMMING

Time : 2 hours
Maximum Marks : 70
Note: Attempt any five questions. Each question carry equal marks. First question is compulsory.

1. (a) The range of unsigned int is :
(i) 0-65535
(ii) -32768 to 32767
(iii) 0-255
(iv) -128 to 125
(b) Every statement in ' C ' ends with :
(i) colon
(ii) semicolon
(iii) dot
(iv) $\backslash \backslash n^{\prime}$
(c) What is the output of the following code int
a; $\mathrm{i}=5$;
$\mathrm{a}=++i+i++;$
printf("\%d\%d", a, $i$;
(i) 12,6
(ii) 11,7
(iii) 12,7
(iv) 10,7
(d) If is a :
(i) variable
(ii) keyword
(iii) identifier
(iv) none
(e) Array is of which type :
(i) non-linear
(ii) linear
(iii) primitive
(iv) none
(f) What is the output of the following code int a; $i=15$;
$a=-15 \%-20$;
printf ("\%d", a);
(i) 15
(ii) 0
(iii) -15
(iv) - 3
(g) do - while loop is :
(i) Entry control loop
(ii) Exit control loop
(iii) both (i) and (ii)
(iv) none
2. (a) What is Information ? What is the need of 7 information storage and retrieval ? Explain with suitable example.

(b) What are key constraints? Explain each ..... 7

key with suitable example.
3. (a) Write a program to check whether the given 7 number is prime number or not.
(b) Write the syntax of switch. How it differs ..... 7
from the If - else Ladder?
4. (a) What is computer? Write and explain the7 applications of computer. Computer is the combination of Hardware and software. Justify.
(b) Write a 'C' program for printing the output 7 as given below.
1
23
$4 \quad 5 \quad 6$
$\begin{array}{llll}7 & 8 & 9 & 10\end{array}$
5. (a) What is Database management system ? 7 Explain the architecture of DBMS.
(b) What is array? Write a program for the 7 addition of wo matrices of order $3 \times 3$.
6. (a) Write a program to create a database file 7 having student name, Roll Number, percentage, address and write a query to get the record of those students who live in Noida.
(b) What are data types ? Explain each data 7 type with example.
7. Explain the following in short : $2 \times 7=14$
(a) CAD
(b) CAM
(c) CAE
(d) CAI
(e) Software available for electrical engineering
(f) DML and DDL
(g) RDBMS

