No. of Printed Pages: 5

**BICS-030** 

## DIPLOMA - VIEP - COMPUTER SCIENCE AND ENGINEERING (DCSVI)/ADVANCED LEVEL CERTIFICATE COURSE IN COMPUTER SCIENCE AND ENGINEERING (ACCSVI)

00415

## Term-End Examination December, 2014

BICS-030: 'C' PROGRAMMING

Time: 2 hours Maximum Marks: 70

**Note:** Question no. 1 is **compulsory**. Attempt **four** more questions from questions no. 2 to 8.

1. Choose the correct answer:

 $7 \times 2$ 

- (a) DBMS stands for
  - (i) Database Application System Extended
  - (ii) Database Management System
  - (iii) Data Business Management System
  - (iv) None of the above

(b) What will be the output, if you will execute the following 'C' code? Void main () { int i; (i = 8) + = 1;printf ("%d", i); } (i) 9 (ii) 10 (iii) 32 (iv) 34 'C' is a \_\_\_\_\_ language. (c) (i) High level (ii) Low level (iii) Middle level (iv) Machine level (d) Identify the wrong statement. (i) putchar (65) (ii) putchar ('x') (iii) putchar ("x") (iv) putchar ('\n') (e) An ampersend (&) before the name of a variable denotes Actual value (i) (ii) Variable name (iii) Address (iv) Data type

<b>(f)</b>	SQL stands for	
	(i) Structured Query Language	
	(ii) Sequential Queue Language	
	(iii) Sequential Query Language	
	(iv) Standard Query Language	
(g)	Unique and NOT NULL properties are in:	
	(i) Primary Key	
	(ii) Foreign Key	
	(iii) Unique Key	
	(iv) Candidate Key	
(a)	Discuss various data types in 'C' language.	6
(b)	Write a program to find the largest number	
. ,	among three numbers using conditional	
	operators.	8
(a)	Does if-else statement differ from	
	switch-case statement? Which statement is	
	better and why?	3+4
(b)	What is a string? How is a string	
	represented or stored in the memory?	3+4
(a)	How are the following terms distinct from	
()	each other:	
	(i) Primary Key	
	(ii) Candidate Key	
	(iii) Super Key	6
(b)	How is DBMS different from traditional	
	file system? Also, write the advantages of	•
	DBMS.	4+4

2.

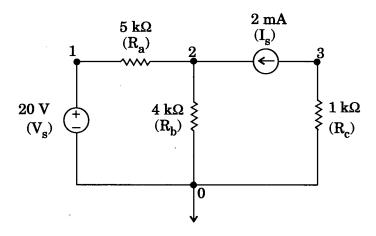
3.

4.

- 5. (a) What is the basic difference between commercial and business data processing applications? Explain with an example. 5+3
  - (b) Explain any three Engineering Computation Techniques. 6
- 6. (a) What are the different softwares available in the field of electrical engineering and how are they helpful in designing and analysis of a circuit?

  3+5
  - (b) Using this circuit, solve the bare-bones minimum problem using PSpice/Matlab/Simulink.

6



7.	Cons	sider the following schema :	
	Empl	loyee (Empid, Ename, Depid, Did	)
	Dept	(Did, Dname)	
	Depe	endant (Depid, Depname, Empid)	
	(a)	Write an SQL Query to delete the values from Dependant table where Empid = 234.	; 4
	(b)	Write an SQL Query to add new column "Salary" with number data type and 5 data size.	
	(c)	Write an SQL Query to sort the Did in descending order.	n é
8.	Write	e short notes on any <b>four</b> of the following : $4 \times 3$	$\frac{1}{2} = 14$
	(a)	CAD (Computer Aided Design)	
	(b)	CAE (Computer Aided Engineering)	
	(c)	Array	
	( <del>d</del> )	Foreign Key	

(e)

**(f)** 

Identifiers in 'C'

Attributes