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BICS-030

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

Term-End Examination

June, 2016

BICS-030 : 'C' PROGRAMMING

Time : 2 hours

00826

Maximum Marks: 70

Note: Attempt any five questions. Question no. 1 is compulsory.

1. Choose the correct option.

 $7 \times 2 = 14$

P.T.O.

- (a) Which of the following translators converts high level language to machine level language?
 - (i) Compiler
 - (ii) Assembler
 - (iii) Interpreter
 - (iv) Preprocessor

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- (b) Which of the following is a valid variable?
 - (i) int
 - (ii) float
 - (iii) for
 - (iv) average
- (c) Int data type will take ______ to store a variable.
 - (i) 1 byte
 - (ii) 2 bytes
 - (iii) 4 bytes
 - (iv) None of the above
- (d) How many elements will be there in A [10] [5] ?
 - (i) **50**
 - (ii) **10**
 - (iii) **5**
 - (iv) 15
- (e) A file is a collection of
 - (i) Files
 - (ii) Identifiers
 - (iii) Related records
 - (iv) None of the above
- (f) 'C' was developed by
 - (i) James Gosling
 - (ii) Dennis Ritchie
 - (iii) Stroustrup
 - (iv) None of the above

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	(g)	A function which calls itself is known as (i) Recursion	
		(ii) Call by value	
		(iii) Call by reference(iv) None of the above	
		(IV) None of the above	
2.	(a)	Define Information. Explain information	
		storage and retrieval with a suitable	
		example.	7
	(b)	What do you mean by DBMS ? Explain the	
		various advantages of database.	7
3.	(a)	What is data trans in (C) 2 Displain th	
	(a)	What is data type in 'C' ? Explain the	
		different data types with examples.	7
	(b)	Differentiate between the following :	7
		(i) While and do-while loop	
		(ii) If-else and switch statement	
4.	(a)	Write a 'C' program to print the following	
		outputs :	8
		1	
		1 2	
	•	1 2 3	
		1 2 3 4	
		1 2 3 4 5	
	(b)	Write a program in 'C' to check if a given	
		number is a leap year or not.	6

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P.T.O.

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- 5. (a) Two numbers are entered through the keyboard. Write a program to find the value of one number raised to the power of another.
 - (b) Write a program to print all the ASCII values and their equivalent characters.
- 6. (a) What is the importance of 'C' in the core engineering? Explain.
 - (b) Write a program in 'C' to find the transpose of a matrix.
- 7. (a) Define data processing. Differentiate between commercial and business data processing applications.
 - (b) Write a 'C' program to count the number of lines in a file.
- 8. Write short notes on any *four* of the following: $4 \times 3\frac{1}{2} = 14$
 - (a) Array
 - (b) Candidate Key
 - (c) CAD
 - (d) CAM
 - (e) Operators
 - (f) Basic Structure of 'C' Program

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