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BICS-030

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

72000

Term-End Examination
December, 2017

BICS-030: 'C' PROGRAMMING

Time: 2 hours Maximum Marks: 70

Note: Question no. 1 is **compulsory**. Attempt any **four** questions from the rest.

- 1. Choose the correct option for the following multiple choice questions: $7\times2=14$
 - (a) In C programming language, what is used to convert source code into binary code?
 - (i) Compiler
 - (ii) Assembler
 - (iii) Interpreter
 - (iv) None of these
 - (b) Which of the following is a valid bit-wise operator in C?
 - (i) & &
 - (ii) <
 - (iii) &
 - (iv) = =

(c)	Which of the following is the right way to initialize an array?
	(i) int MARKS { } = {20, 25, 21, 18, 24}
	(ii) int MARKS {5} = [20, 25, 21, 18, 24]
	(iii) int MARKS [5] = {20, 25, 21, 18, 24}
	(iv) None of these
(d)	A in a table represents a relationship among a set of values.
	(i) row
	(ii) column
	(iii) key
	(iv) attribute
(e)	To insert data in a table, which SQL command is used?
	(i) INSERT
	(ii) UPDATE
	(iii) SELECT
	(iv) CREATE
(f)	Which of the following is a user defined
	data type?
	(i) int
	(ii) float
	(iii) char
	(iv) enum

	(g)	How many values will be stored in array int MAX [10] [10]?	
		(i) 20	
		(ii) 100	
		(iii) 200	
		(iv) None of these	
2.	(a)	What is Information ? Explain the advantages of storing information with example.	7
	(b)	What is DBMS? Explain the basic features of DBMS.	7
3.	(a)	What is Operator? Explain logical and arithmetic operators in C.	6
	(b)	Write a C program to store marks of 20 students in a mathematics course. Also find the average marks of the mathematics course.	8
4.	(a)	Write a C program to find the grade of students on the basis of the following details: Grade A for marks 80 and above Grade B for marks 61 to 79 Grade C for marks 40 to 60 Grade F for marks less than 40	
		Make the necessary assumptions required.	8
	(b)	Write a C program to find the square root of a given number. Display the appropriate message if the number is not a perfect	
		square.	6
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5.	(a)	Explain with examples, different data types in C.	7
	(b)	Write a C program to read a character in lower case and convert it into upper case.	7
6.	(a)	Explain the use of C language in the study of electrical engineering.	7
	(b)	What is CAD? Explain how it is different from CAM.	7
7.	(a)	Explain the use of Case statement with the help of an example program.	7
	(b)	Write a C program to find whether a given number is even or odd.	7
8.	Write follow	1	4
	(a)	Primary Key	
	(b)	CAE	
	(c)	While Loop in C	
	(d)	CIM	
	(e)	SQL	
	(f)	Two-Dimensional Array	