

**DIPLOMA VIEP COMPUTER SCIENCE AND  
TECHNOLOGY (DCSVI)/ADVANCED LEVEL  
CERTIFICATE COURSE IN CSE (ACCSVI)**

**Term-End Examination**

**December, 2013**

**BICS-030 : 'C' PROGRAMMING**

*Time : 2 hours*

*Maximum Marks : 70*

*Note : Attempt any five questions. Each question carry equal marks. Question no. 1 is compulsory.*

1. (a) The Initialization of variable at runtime is called : 2x7=14
- (i) static Initialization
  - (ii) dynamic Initialization
  - (iii) variable Initialization
  - (iv) assigned Initialization
- (b) Which one is a user-defined data type ?
- (i) int                      (ii) float
  - (iii) char                  (iv) enum
- (c) What is the output for the program :
- ```
Void main( )
{
int r=2;
float area = 3.4*r*r;
printf ("Area = "%9", area);
}
```
- (i) 12                              (ii) 12.5
  - (iii) 12.56                      (iv) 12.566
- (d) Which one of the following is not a Derived Data type ?
- (i) Pointer                      (ii) Functions
  - (iii) Arrays                      (iv) Struct

- (e) A primary key is always  
 (i) candidate key (ii) ambiguous  
 (iii) unique (iv) none
- (f) In switch case number cannot be:  
 (i) int (ii) char  
 (iii) float (iv) none
- (g) Which one is used for unconditional jump?  
 (i) break (ii) go to  
 (iii) for (iv) continue
2. (a) Define Database. Explain how the File System is differs from the Database System ? **2+5**
- (b) What is a primary key ? Explain in detail about the Quering Operations. **2+5**
3. (a) What is a Variable? Discuss the rules for developing a variable. **2+5**
- (b) Illustrate with an example the different data types in 'C' language. **7**
4. (a) Discuss the following :  
 (i) operators **3.5**  
 (ii) expressions **3.5**
- (b) Write a program in 'C', for adding any two numbers. **7**
5. (a) Illustrate with an example the conditional branching statement in 'C' language. **7**
- (b) Write program in 'C' using do-while loop that find the sum of 'n' numbers. **7**

6. (a) What is looping ? Using 'for' loop write a mark list program that contains fields like student name, roll number, branch, college name for storing and retrieving records. 7
- (b) What is CAD? How it differ's from CAM ? 7  
Write applications for each of them.
7. Write short notes on the following : 2x7=14
- (a) CAE
- (b) CAI
- (c) Arrays and their types
- (d) If-else Ladder and Switch.
- (e) While and do-while loop
- (f) Introduction to various software available for electrical Engineering.
- (g) Data processing Applications.
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