

Reg. No.

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**BCMCAV 105**

**Credit Based First Semester B.Com. Degree  
Examination, October/November 2016  
Paper – II : COMPUTER APPLICATIONS (Vocational)  
(Common to All Batches)**

Time : 3 Hours

Max. Marks : 80

**Note :** Answer any 10 questions from Part A and any one full question from each Unit of Part B.

**PART – A**

1. a) List any four rules for naming an identifier in C. (10×2=20)  
b) What is ternary operator ? Give example.  
c) If  $a = 10$ ,  $b = 10$  and  $c = -16$ , evaluate  
`++a > b && b + c || b > c`  
d) What is an array ? How do you initialize single dimensional array ?  
e) What is the difference between `gets( )` and `scanf( )` for accepting strings ?  
f) What is the use of `typedef` statement ? Give example.  
g) How `>>` and `<<` operator works ?  
h) Give any two advantages of user defined functions.  
i) What is meant by longevity and scope of a variable ?  
j) What is the use of `sizeof( )` ? Give example.  
k) What are command line arguments ?  
l) What is a pointer ? How do you declare and initialize pointer variable ?

**PART – B**

**Unit – I**

2. a) Explain various datatypes supported in C.  
b) Explain `printf( )` with syntax and various format characters.  
c) What is meant by explicit type conversion ? What are the rules needed for this ? (6+4+5)

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- 3. a) Describe basic structure of C program.
  - b) Write a note on 'symbolic constants'.
  - c) Explain with syntax, purpose and examples.
    - i) ceil()
    - ii) floor()
    - iii) pow()
    - iv) sqrt()
- (5+4+6)

**Unit – II**

- 4. a) Explain various forms of if statement.
- b) Compare 'for' with 'while' statement. Give example.
- c) Write a program to check the entered number is palindrome. (4+6+5)
- 5. a) Explain switch statement.
- b) Differentiate continue and break statements with example.
- c) Write a program to find the sum of two matrices. (5+4+6)

**Unit – III**

- 6. a) What do you mean by recursive function ? Apply this to find the factorial of an integer.
- b) Explain auto, static and extern storage classes.
- c) Explain any four string functions with syntax, purpose and example. (4+5+6)
- 7. a) Explain any three categories of user defined function.
- b) Explain various ways of reading the strings from terminal.
- c) Write a note on passing by value and passing by reference. (6+4+5)

**Unit – IV**

- 8. a) With syntax and example, explain how structure variable and members can be defined and declared.
- b) Give any five advantages of using pointers.
- c) Explain macro substitution and file inclusion directives. (5+5+5)
- 9. a) What is bitfield ? Explain with example code.
- b) Write a note on pointer arithmetic.
- c) What is a file ? Differentiate between :
  - i) fprintf( ) and printf( )
  - ii) getc( ) and getchar()
  - iii) putw() and putc().(4+4+7)