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BCACAC 109

**Credit Based First Semester B.C.A. Degree Examination, Oct./Nov. 2012
(New Syllabus) (2012-13 Batch Onwards)
PROGRAMMING IN C**

Time : 3 Hours

Max. Marks : 80

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

PART – A

(2x10=20)

1. a) Distinguish the following :
main () and void main (void)
- b) What is constant ? What are the different types of constants ?
- c) Evaluate the following :
 - i) (Assume int k=8)
m= k++ – k++
 - ii) p=!0*10
- d) What are exit controlled looping statements ? Give an example.
- e) What is the use of comma operator ? Give an example.
- f) How can we declare a two dimensional array ? Give an example.
- g) Distinguish the following :
 - i) getchar () and scanf () functions
 - ii) % s and % [. .] specifications for reading.
- h) Differentiate between an array and structure.
- i) Write a note on gets () function.
- j) What is a local variable ? Give an example.
- k) How do you access the members of a structure ? Give an example.
- l) Distinguish the following :
 - i) feof () and eof ()
 - ii) putc () and putchar ()

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PART - B
UNIT - I

2. a) Describe the various fundamental data types of C.
b) Explain the following
i) Unary operators
ii) Assignment operators
c) What is formatted output ? Explain output formatting of integers and string. (5+5+5)
3. a) List any four features of a C program.
b) What is symbolic constant ? List any three rules of a symbolic constant.
c) What are the rules for evaluation of expressions ?
d) Differentiate the following :
i) & and &&
ii) = and == (4+4+5+2)

UNIT - II

4. a) Explain ternary operator with syntax and example.
b) Explain while loop with its syntax and example. Also write the difference between while and do..while statement.
c) Explain the following :
i) if..else statement
ii) nested if. (3+5+4+3)
d) Explain any three additional features of a for loop.
5. a) Explain the switch statement with its syntax and example. How does it differ from nested if else statement.
b) Explain break statement with example.
c) Write a program to find the maximum and minimum element in an array of N elements.
d) What is meant by looping ? Explain for loop with syntax, purpose and example. (5+2+4+4)

UNIT – III

6. a) Explain any four string functions with syntax and example.
b) What are user defined functions ? Explain any two categories of functions.
c) Explain any three storage classes available in C. (4+5+6)
7. a) What do you mean by a string ? How do you initialize a string ? Explain.
b) Write a note on passing arrays to functions.
c) What is recursive function ? Explain with an example.
d) What are actual and formal parameters of a function ? (4+4+4+3)

UNIT – IV

8. a) Explain the following with an example.
i) Nested structure
ii) Arrays of structures
b) Explain the following with syntax and example
i) fprintf()
ii) fclose()
iii) fopen()
c) What is a pointer ? How do you declare, initialize and access the pointer variable ? Give an example. (4+6+5)
9. a) What is a structure ? How do you define a structure and declare structure variables ? Explain with an example.
b) What is a bit field ? Write the general form of a bit field definition.
c) Explain any two preprocessor directives with suitable examples.
d) Write C program to swap the values of two variables using pointer. (4+3+5+3)

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