SREE VIDYANIKETHAN ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to JNTUA, Anantapur)
M.C.A. I Semester (SVEC16) Regular/Supplementary Examinations January - 2019
PROGRAMMING IN C
[MASTER OF COMPUTER APPLICATIONS]

Time: 3 hours   Max. Marks: 60

Answer One Question from each Unit
All questions carry equal marks

UNIT-I

1. a) Predict the output of **c, d, e** and **f** in the below code.   4 Marks
        float c=15/10**.**0;
        int d=15/10;
        float e=15/10;
        float f=15**.**0/10**.**0;
    b) Tell the type conversions with a suitable example.   8 Marks

(OR)

2. a) Write the size and range of the basic data types.   6 Marks
    b) Consider x = 0, y = 0 and z =1.   3 Marks
        Find the value of **x, y** and **z** after executing the following code.
        if(x)
         if(y)
         z=3;
        else
        z=2;
    c) Solve the following expression and find output of the following code.   3 Marks
        void main( )
        {
          int x=!5-4+2*5;
        printf("%d",x)
        }

UNIT-II

3. a) State the differences between entry controlled and exit controlled loop with an   7 Marks
        example.
    b) Write the usage of break and continue statement with example.   5 Marks

(OR)

4. a) What is two-dimensional array? How they are stored in memory?   6 Marks
    b) Explain memory allocation functions with suitable example.   6 Marks

UNIT-III

5. a) Is it possible to pass an entire array to a function as an argument? State with an   6 Marks
        example.
    b) Illuminate Recursive function with an example.   6 Marks

(OR)

6. a) Distinguish the advantages and disadvantages of Pointers.   6 Marks
    b) State the arithmetic operations which are allowed in pointers. Write the use of   6 Marks
        NULL pointer to avoid dangling state.

UNIT-IV

7.   How to declare structure and its variables? Specify accessing operators for   12 Marks
        structures.

(OR)

8.   Construct a structure that can describe a hotel. It should have members that   12 Marks
include the name, address, grade, average, room charge and number of rooms.
Write the functions to perform the following operations:
      i) To print out hotels of a given grade in order of charges.
      ii) To print out hotels with room charges less than a given value.

UNIT-V

9.   Write a C program to demonstrate sequential file access.   12 Marks

(OR)

10. a)   Relate conditional preprocess directives with suitable example.   7 Marks
     b)   Specify various access modes for text files.   5 Marks

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