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Code No.: 134 S

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
M.C.A. I Year I-Semester (Supplementary) Examinations, June-2016

Computer Programming and Problem Solving

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 × 2=20 Marks)

1. What is operator precedence? Arrange the following operators in the order of their precedence. *, +, (), ||, ^, ++, /, &&.
2. What is type conversion? Illustrate implicit and explicit type conversions in C.
3. What is an array? Differentiate between arrays and structures.
4. List various memory allocation functions in 'C'.
5. Illustrate enumerated data types.
6. What is a file? List the different file mode operations.
7. What is destructor in C++? And give an example.
8. Write about this pointer with example.
9. What are the advantages of Dynamic binding?
10. Define pure virtual function.

Part-B (Marks: 5 X 10=50)

(All bits carry equal marks)

11. a) Explain various iterative statements in C with examples.
b) Write a C program to find the factorial of given number.
12. a) Develop a function in C to sort the numbers in ascending order using Selection sort technique.
b) What is function? Explain parameter passing mechanism in C language with examples.
13. a) Write C program to count the number of lines, words, and characters in a text file.
b) Describe any four preprocessor directives with examples.
14. a) What is function overloading? How to implement function overloading in C++?
b) What is constructor? Explain various types of constructor with examples.
15. a) What is inheritance? Explain about various types of inheritance in C++ with suitable code.
b) What is exception handling? How to implement exception handling in C++.
16. a) What is operator overloading? Illustrate by writing a C++ program to overload the '*' Operator.
b) Write a C function for insertion sort.
17. a) List C++ predefined streams and explain with suitable examples.
b) Write a C program for multiplication of two matrices.
