

Hall Ticket Number:

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Code No. : 11025 O2

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (CBCS) I-Semester Backlog (Old) Examinations, Dec.-2018/Jan.-2019

Computer Programming

Time: 3 hours

Max. Marks: 60

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

Part-A (10 × 2 = 20 Marks)

1. Differentiate between implicit and explicit type conversion.
2. Design a flowchart to display even numbers from 1 to 10.
3. Evaluate (00001000) & (11000101). What is the significance of the operator used in the expression?
4. Differentiate between automatic and static storage class.
5. Write the recursive function to compute the factorial of a number.
6. How will you declare and initialize a two dimensional array?
7. Write C statement to declare a variable to store 60 students marks in one subject and initialize them with '0' in all entries.
8. Write any two memory allocation functions and their uses.
9. What is the advantage of structure over array?
10. What are the file opening modes in C? Specify the syntax.

Part-B (5 × 8 = 40 Marks)

11. a) What are the steps required in software development process? [2]
b) Convert the following numbers given in one number system to another number system.
i) $(56)_{10} = ()_2$ ii) $(678)_{10} = ()_{16}$ iii) $(5376)_8 = ()_{16}$ [6]
12. a) Write the syntax of else if ladder. Explain it with an example. [4]
b) Write a program to find maximum of three numbers using functions. [4]
13. a) What is binary search? Write an algorithm to perform binary search from a given list of elements. [4]
b) Given two matrices of size 3*3 as input, Write a program to add the two matrices and display the result. [4]
14. a) Write any four string handling functions used in C. Explain with example. [4]
b) Write a program to find arithmetic operations on two given numbers using pointers. [4]
15. a) Define Structure. How are the members of structure accessed? Explain with an example. [4]
b) Write a program to copy content of one file to another file. [4]
16. a) What is the significance of data type? Give the data types in C along with their sizes and ranges. [4]
b) Write a program to print all non-prime numbers present between 100 and 200. [4]
17. Answer any *two* of the following:
a) Define array. Write a program to compute the sum of the elements in an array. [4]
b) What is call by reference parameter passing method? Explain with an example. [4]
c) What is an array of structure? Explain with an example. [4]

