

M 7929

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Second Semester B.Sc. Degree Examination, May 2010

COMPUTER SCIENCE (Core)

Course No. 2 : 2 B01 CSC – Advanced Programming in C

Time: 3 Hours

Maximum Weighted Grade Point : 84

SECTION – A

Answer **all** questions. Weightage for a bunch of 4 questions is 1.

(Maximum weighted grade point $1 (W) \times 2 (\text{bunch}) \times 4 (\text{Max GP}) = 8$)

1. Group of characters are called _____
2. Collection of homogeneous data items are called _____
3. A function of type void returns _____ number of values to calling point.
4. A variation of structure in which at a time only one member value is stored is called _____
5. In dynamic allocation, allocated memory can be freed using _____ function.
6. _____ is indirection operator in C.
7. argc is a term in _____ in C.
8. Function used to close a file is _____

P.T.O.

SECTION – B

Answer **any 5** questions. **Each** question carries a weightage 1 :

(Maximum weighted grade point 1 (W) \times 5 (Qn) \times 4 (Max GP) = 20)

9. Define multi dimensional array in C.
10. What is use of strcmp () in C ?
11. Define function prototype.
12. What is array of structure in C ?
13. What is a structure tag in C ?
14. What is meant by dynamic allocation ?
15. What is bit wise operators in C ?
16. What is meant by command line arguments ?

SECTION – C

Answer **any 5** questions. **Each** question carries a weightage 2.

(Maximum weighted grade point 2 (W) \times 5 (Qn) \times 4 (Max GP) = 40)

17. Write a sample C program to declare and read 10 values into an integer array.
18. Write a C program check whether a string is palindrome or not.
19. Write a C program using recursive functions to generate series 0, 1, 1, 2, 3, 5, 8
20. Explain how an array can be passed to a function with an example.

21. Write a C program to create a structure that contains two integer and one string quantity, then enter values into it.
22. Write a C program to find largest in an integer array using pointers.
23. Write a sample program for command line arguments.
24. Write a C program to create a text file by entering data through key board.

SECTION – D

Answer **any 1** question. Question carries a weightage **4** :

(Maximum weighted grade point 4 (W) × 1 (Qn) × 4 (Max GP) = 16)

25. Write a C program to find sum and product of two matrices. Use functions to find sum and products.
26. Explain following with examples :
 - i) Scope of a variable in C
 - ii) Dynamic memory allocation
 - iii) Error handling in files
 - iv) Pre processor directives.