

B.C.A. DEGREE EXAMINATION – NOVEMBER 2011  
THIRD SEMESTER

COURSE : MAJOR CORE

PAPER : ADVANCED PROGRAMMING TECHNIQUES

TIME : 1½ HOURS

MAX. MARKS: 50

SECTION – A

I. ANSWER ALL THE QUESTIONS:

10X1=10

Choose the correct answer:

- 1.The dereferencing operator is another name for \_\_\_\_\_ operator.  
(a) value            (b) indirection            (c) address            (d) none of the above
- 2.The link between a member & a variable is established using \_\_\_\_\_ operator.  
(a) value            (b) struct            (c) period            (d) none of the above
3. The \_\_\_\_\_ mode opens an existing file.  
(a) ab            (b) w+            (c) rb            (d) r+
4. A \_\_\_\_\_ linked list is also a two way linked list.  
(a) singly            (b) doubly            (c) circular            (d) none of the above
5. The \_\_\_\_\_ directive defines a symbolic constant to the preprocessor.  
(a) #define            (b) #undef            (c) #include            (d) #endif

II. FILL IN THE BLANKS:

6. \_\_\_\_\_ contain memory addresses as their values.
7. To initialize a structure, the storage class must be \_\_\_\_\_.
8. The \_\_\_\_\_ function resets the file pointer to the beginning of the file.
9. The \_\_\_\_\_ function does the dynamic memory allocation.
- 10.The \_\_\_\_\_ directive tests whether a macro is defined or not.

**SECTION – B****III. ANSWER ALL QUESTIONS:****5X2=10**

11. Explain how to declare & initialize pointer variables.
12. What are Arrays of Structures?
13. Explain about fseek() & ftell() functions.
14. What are Stacks? Explain its operations.
15. What is Masking?

**SECTION – C****IV. ANSWER ANY SIX QUESTIONS:****6X5=30**

16. Discuss the various Storage classes in C.
17. Explain what is “call by reference” & “call by value”.
18. Explain the concept of Structures with example.
19. Explain the different types of file operations.
20. Explain the operations done on the Doubly linked list.
21. Explain with examples the three Tree Traversals.
22. Explain with examples various Bitwise operators.
23. Explain the concept of Preprocessors.

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