

**B.Tech I Year(R07) Supplementary Examinations, May/June 2010**  
**COMPUTER PROGRAMMING**  
**(Mechanical Engineering)**

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

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1. What are the different types of special operators available in 'C'? Explain with example. [16]
2. (a) What are the commonly used Input / Output functions used in 'C'. How they are accessed?  
(b) What is the standard Input / Output header files in 'C'? How it is used? [10+6]
3. (a) Write an example to explain about call by value.  
(b) Write a factorial program using no return and no argument type. [10+6]
4. (a) Write short notes on one - dimensional arrayb.  
(b) Write a 'C' program to sort an array of elements using bubble sort. [6+10]
5. Define Structure and write the general format for declaring and accessing structure members with an example. [16]
6. (a) Write the syntax for opening a file with various modes and closing a file.  
(b) Explain about file handling functions. [8+8]
7. Write a program in C to perform the various operations that can be done on stack that was implemented using array. [16]
8. (a) What is a network?  
(b) What is a spanning tree?  
(c) Define minimal spanning tree.  
(d) What are the various traversals in a tree? [4+4+4+4]

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