

Code No: R07A1EC04

R07

I B.Tech Examinations, May/June 2012
COMPUTER PROGRAMMING
Common to Mechanical Engineering, Mechatronics, Production
Engineering, Automobile Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain call by value and call by reference and nesting of function with suitable example. [16]
2. (a) Write a 'C' program to generate Fibonacci series.
(b) Distinguish between if - else and switch case with an example. [8+8]
3. (a) What are the advantages of using pointers?
(b) Explain static memory allocation. [8+8]
4. Write a program for indexed sequential file for the employee database for the following operation.
(a) Add a Record (b) Modify a Record.
Assume any other data required suitably. [16]
5. What is a self - referential structure? What kind of applications is it used?
Give examples. [16]
6. (a) Define tree and binary tree. Explain in detail.
(b) Define graph and its terms. Explain in detail. [8+8]
7. Write a program to evaluate the following expression
 $A * B + (C - D) / A$ to prefix using stack. [16]
8. Write algorithm, flowchart and program to find greatest of three numbers. [16]
