

R07**Code: R7100307**

B.Tech I Year (R07) Supplementary Examinations December/January 2015/2016

COMPUTER PROGRAMMING

(Mechanical Engineering)

(For 2008 Regular admitted batch only)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain basic structure of C program with general characteristics of C language.
(b) Enumerate the steps involved in evaluating expressions using precedence of operators.
- 2 What are the different types of control statements available in 'C' and explain them with an example.
- 3 (a) Explain in detail about pass by value and pass by reference with example program.
(b) Distinguish between the following:
(i) Actual and formal arguments.
(ii) Global and local variables.
(iii) Automatic and static variables.
- 4 (a) Define an array. What are the different types of arrays? Explain.
(b) What is a pointer? List out the reasons for using pointers.
- 5 (a) Define structure and write the general format for declaring and accessing members.
(b) Distinguish between an array of structures and an array within a structure. Give an example for each.
- 6 (a) Explain the way of defining, opening and closing a file.
(b) Distinguish between text mode and binary mode operation of a file.
- 7 Declare a queue of integers. Write functions:
(a) To insert an element in to queue.
(b) To delete an element from queue.
- 8 List and explain the basic operations on graphs with examples.
