MCSE-204

M.E. / M.Tech. (second semester)
EXAMINATION, june, 2012
(Garding/Non-Grading)
SYSTEM PROGRAMMING
(MCSE-204)
http://www.rgpvonline.com/

Time: three hours *Maximum Marks: GS: 70*
NGS:100

NOTE-: Attempt any five questions. all questions carry equal marks.

1. (a) compare use of the binary search organization and the binary tree organization for constructing the symbol table in a language processor.
   (b) explain the processing of an object program using-
   1- linking loader 2- linkage editor.

2. (a) how many techniques are available for dynamic storage? explain briefly each of them.
   (b) discuss about different approaches to compiler development.

3. (a) write unified algorithm for data flow analysis.
   (b) compare local and global optimization.

4. (a) what kinds of source program errors would be detected during code generation?
   (b) distinguish between loop carried and loop independent dependencies.

5. (a) write goals of distributed operating system and discuss its design issues.
   (b) how does deadlock occur in distributed operating system?

6. (a) list the kernel's action in performing page-in and page-out operations.
   (b) write in detail about access matrix model.

7. (a) describe about andrew operating system.
   (b) discuss about security attacks in distributed systems.

8. write short notes on the following :
   (a) fault tolerance
   (b) data partitioning
   © RPC
   (D) DSM