

Roll No.

23071

**M. Tech. 2nd Semester (Computer Engg.)
Examination – December, 2014**

RESOURCE MGT. IN COMPUTER SYSTEM

Paper : MTCE-604-A

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. Explain what do you mean by operating system ? Also explain the functions and services of operating system.

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2. (a) Give a brief idea about Paging. Also explain the Paging techniques.

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- (b) What do you mean by Thread ? Explain in detail.

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3. What is Deadlock ? Explain different deadlock handling mechanism. 20
4. What do you mean by Distributed operating system ? Explain its Architecture, its design issues. 20
5. Explain the following : 20
- (i) Access Control List,
 - (ii) Lock Key Methods.
6. Explain the case study of : 20
- (a) LINUX,
 - (b) Windows NT.
7. Explain the different models : 20
- (i) Take Grant method,
 - (ii) Bell La Padula model.
8. Explain : 20
- (i) Thread,
 - (ii) Spooling and Buffering,
 - (iii) Token Based Algorithm,
 - (iv) Non Token Based Algorithm.