

2218

B.E. 5th Semester (IT) Examination,

December-2012

PRINCIPLES OF OPERATING SYSTEM

Paper-CSE-301-E

Time allowed : 3 hours] [Maximum marks : 100

Note : Do any five questions. All questions carry equal marks.

1. (a) What do you mean by System Programs ?
Explain. 10
- (b) Explain the different types of operating system. 10
2. (a) What do you mean by Process Scheduling.
Explain. 10
- (b) Explain what are the different operations on Process. 10
3. (a) Describe the term Paging in detail. 10
- (b) What do you mean by segmentation ?
Explain. 10
4. Explain in detail the concept of file. Also explain the file Attributes, file operations, file types and file structure. 20

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5. (a) What do you mean by critical section problem ?
Explain. 10
- (b) What do you mean by Deadlock ? Explain how
we prevent the occurrence of a Deadlock ? 10
6. (a) What do you mean by performance issues in the
I/O system ? 10
- (b) What do you mean by Direct memory Access ? 10
7. Explain the windows NT architecture in detail. Also
explain the windows NT file system. 20
8. Explain the following :
(a) Virtual memory
(b) Deadlock Detection
(c) Shell Interpreter. 20