Roll No. ....

24252

B. Tech 5th Semester (CSE)

Examination – December, 2016

PRINCIPLES OF OPERATING SYSTEM

Paper : CSE-301-F

Time : Three Hours]　　　　　[Maximum Marks : 100

Before answering the question, 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 *five* questions. Question No. 1 is compulsory. Attempt one question each from each Section.

1. Write a short note on the following :　　　4 × 5 = 20

   (a) System programs and system calls.

   (b) Logical and Physical address.

   (c) Critical Section.

   (d) Shell interpreter.

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SECTION – A

2. (a) What is Operating System. Explain its types in detail.   10

   (b) Explain First come First serve and shortest Job first in detail with suitable example.   10

3. (a) Differentiate between Distributed Operating System and Network Operating System.   10

   (b) Explain the concept of process in detail.   10

SECTION – B

4. Explain virtual Memory Management.   20

5. Explain swapping in detail.   20

SECTION – C

6. (a) Explain directory structures in detail.   10

   (b) What are the advantages of a Distributed file system over a file system in a centralized system.   10

7. (a) Explain distributed file system.   10

   (b) What is semaphore ? Which operation done on semaphore. Explain in detail.   10

SECTION – D

8. Explain Window NT file system.   10

9. Explain architecture of UNIX operating system.   10

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