

Total No. of Questions :5]

SEAT No. :

[Total No. of Pages :1

P20

Oct./TE/ Insem. - 18

T.E. (Computer Engineering)

**OPERATING SYSTEMS DESIGN
(2012 Course) (Semester - I) (310242)**

Time : 1 Hour]

[Max. Marks :30

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Q.No 5 is compulsory.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*
- 5) *Assume suitable data, if necessary.*

- Q1)** a) Explain Monolithic kernel, Micro kernel and Exokernal. [5]
b) Explain Systems calls for the files systems. [5]

OR

- Q2)** a) Explain buffer management in Unix/Linux. [5]
b) Explain different techniques of disk management. [5]

- Q3)** a) Explain process state transition diagram in detail. [5]
b) Explain fork() and exec() system call in detail. [5]

OR

- Q4)** a) What is deadlock detection and recovery? Explain two options of deadlock recovery. [5]
b) Explain Linux processes & thread management. [5]

- Q5)** Write a note on (Any two) [10]
- Demand Paging
 - Segmentation
 - Memory Partitioning

