OCTOBER 2012 **P/ID 17416/RBT**

Time : Three hours Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Explain the need to build the distributed systems.

Or

(b) Write short note on system programs.

2. (a) Describe deadlock detection.

Or

(b) What are the concepts to be followed in a process?

3. (a) Write short note on swapping.

Or

(b) Write about paging.

4. (a) Explain consistency semantics.

Or

(b) Describe user interface in UNIX.

5. (a) Write short note on authentication systems.

Or

(b) Explain the design principles in UNIX system.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Describe I/O structure.
7. Discuss on interprocess communication.
8. Explain deadlock avoidance.
9. Explain the steps involved in demand paging.
10. Discuss on free space management.
11. Explain file protection.
12. Describe process management in UNIX system.
13. Explain the classical problems of synchronization.

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