

Register Number:

M.E DEGREE EXAMINATIONS: JUNE/ JULY 2013

Second Semester

COMPUTER SCIENCE AND ENGINEERING

CSE507: Advanced Operating System

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. What is polling? Give example.
2. What is Access Transparency?
3. What is stub?
4. What is periodic probing in RPC?
5. List any two design issues of Distributed Shared Memory Architecture.
6. What is thrashing?
7. What is clock drift rate?
8. What is critical section in distributed system?
9. List any two process migration mechanisms.
10. What is mutex?

PART B (5 x 16 = 80 Marks)

11. a) (i) List and explain desirable features of good message passing system. (8)
(ii) Write a short note on group management, Group addressing and Message delivery process in one to many communication. (8)

(OR)

- b) Briefly explain how three failures are handled in distributed system with neat sketch?

12. a) Explain various call semantics in detail with example.

(OR)

b) Describe Client server binding in detail.

13. a) Explain implementation of sequential consistency model with four different strategies.

(OR)

b) Explain Munin Shared variable Distributed Shared Memory Architecture in detail.

14. a) What is deadlock? And explain how it is avoided and detected in distributed system with necessary sketch and example.

(OR)

b) What is mutual exclusion? Explain distributed mutual exclusion approach with example.

15. a) Explain process migration in heterogeneous system in detail.

(OR)

b) Explain three different file caching schemes in detail.
