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Question Paper Code: 80301 B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016. Sixth Semester Computer Science and Engineering CS 6601 — DISTRIBUTED SYSTEM (Common to Sixth Semester Information technology) (Regulations 2013) Maximum: 100 marks Time: Three hours Answer ALL questions. PART A — $(10 \times 2 = 20 \text{ marks})$ Name five reasons why to build distributed system. Discuss the design issues in Intranet. Write the characteristics of multicast communication. 3. Define Network virtualization. Give the advantages in using name caches in file systems. List the file accessing models. 6 Define nested transactions. What is clock's drift rate? Write down the goals to achieve an optimal assignment. 9. 10. List the features of scheduling algorithms.

PART B - (5 × 16 = 80 marks)

(ii) How resource sharing is done in distributes systems

Elaborate on the recent trends in distributed systems.

11. (a) (i)

List the various challenges in distributed systems and explain

(10) (6)

(16)

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| (16 | Illustrate TCP and UDP communication with suitable example pro- | a) . | 12. |
|---------|---|------|-----|
| | Or | | |
| (16 | Explain any two indirect communication techniques in detail. | (b) | |
| (8 | (i) Explain in detail about naming in file systems. | (a) | 13. |
| (8 | (ii) With neat sketch explain Routing Overlays in detail . | | |
| | Or | | |
| (10 | (i) Describe in detail about Andrew File system in detail. | (b) | |
| (| (ii) Discuss on File Sharing semantics. | | |
| hms. (8 | (i) Explain distributed mutual exclusion with suitable algorith | (a) | 14. |
| whereve | (ii) Elaborate on any three election algorithms. Use diagrams vanecessary. | | |
| | Or | | |
| (3 | (i) Describe atomic commit protocols in detail. | (b) | |
| (| (ii) Explain replication in detail. | | |
| threa | (i) Explain the thread models and the issues in implementation with diagrams. | (a) | 15. |
| | (ii) Describe the features of process migration. | | |
| | Or | | |
| m | (i) Discuss the load balancing approach of resource managed detail. (ii) What is meant by load sharing? Explain any one algorithms having to manage resources. | (b) | |