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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2017

Seventh Semester

Branch—Computer Science and Engineering

CS 010 706 L06—CLIENT SERVER ARCHITECTURE AND APPLICATIONS (CS)

(New Scheme—2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. Write a note on fat client architecture.
2. Outline the role played by middleware in a client server environment.
3. Define multiprogramming.
4. Present an outline of preemptive and non-preemptive scheduling.
5. Write a note on interprocess communication.

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. Outline the advantages and disadvantages of client server computing.
7. Appraise the major influences that cause firms to shift to client server environment.
8. Write a note on multiple processor systems.
9. Explain with an example context switching.
10. Appraise the security threats in a client-server environment.

(5 × 5 = 25 marks)

Turn over

Part C

Answer all questions.

Each full question carries 12 marks.

11. (a) What is a distributed system ? Give example and compare a distributed system with a centralized system. (6 marks)
- (b) What is cross platform computing ? Outline the challenges in building cross platform computing environments. (6 marks)

Or

12. What is a database server ? Explain with an example how clients access data from a database server.
13. What is remote procedure call ? Explain with a diagram the working of remote procedure call.

Or

14. Appraise the issues to be addressed for optimizing an application for client server environment.
15. What is a network operating system ? Discuss the features of Novell NetWare operating system.

Or

16. (a) What is a thread ? Explain with an example multithreading. (6 marks)
- (b) Outline the issues to be addressed while developing server applications. (6 marks)
17. (a) Explain with a diagram process state transition. (6 marks)
- (b) Draw the queuing diagram for scheduling and present an outline of the same. (6 marks)

Or

18. What is a semaphore ? Discuss semaphore implementation in Novell NetWare operating system.
19. Appraise the issues to be addressed for building portable client server applications.

Or

20. Appraise the general guidelines to secure a client server computing environment in a systematic manner.

[5 × 12 = 60 marks]