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| Q. No | Statement |
| **Section A**  5 x 2 = 10 marks | |
| 1 | What is Fork system call? |
| 2 | What is a semaphore? |
| 3 | Distinguish between hacker and cracker |
| 4 | What is cypher text? |
| 5 | What is a peer to peer network? |
| **Section B**  4 x 5 = 20 marks | |
| 6 | When does the deadlock occur? Explain deadlock detection and recovery in detail. |
| 7 | What is critical section problem? Explain any one problem with solution. |
| 8 | Explain with the help of diagram functionality of client server network. |
| 9 | Elaborate the concept of system threat with the help of example. |
| **Section C**  3 x 10 = 30 marks | |
| 10 | Which of the following scheduling algorithms could result in starvation? Explain in detail?  a. First-come, first-served  b. Shortest job first  c. Round robin  d. Priority |
| 11 | Explain the concept of virtual memory along with demand paging. |
| 12 | Explain DDOs? Explain the difference between DDOS and DOS attack. |