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| Q. No | Statement |
| **Section A**  5 x 2 = 10 marks | |
| 1 | What are the three main uses of OS? |
| 2 | What is deadlock? |
| 3 | What is segmentation? |
| 4 | What are the different types of networks? |
| 5 | What is session hijacking? |
| **Section B**  4 x 5 = 20 marks | |
| 6 | a.) With the help of a neat diagram elaborate the concept of process and its states?  b.) Construct the Process Control Block along with its description in detail? |
| 7 | Consider a disk with 200 tracks and the queue has random requests from different processes in the order:  55, 58, 39, 18, 90, 160, 150, 38, 184  Initially arm is at 100. Find the Average Seek length using FIFO, SSTF. |
| 8 | With suitable example differentiate between Network Operating System and Distributed Operating System. |
| 9 | What is access matrix? Explain the implementation of access matrix |
| **Section C**  3 x 10 = 30 marks | |
| 10 | Enumerate the different operating system structure and explain with neat sketch |
| 11 | 1. Evaluating the maximum number of pages needed, if a system supports 16 bit address line and 1K page size. 2. What is the difference between user-level instructions and privileged instructions? |
| 12 | What is encryption? Explain the working with the help of example |