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| Q. No | Statement |
| **Section A**  5 x 2 = 10 marks | |
| 1 | What is TLB? |
| 2 | Define access time |
| 3 | What is time sharing OS? |
| 4 | What is worm? |
| 5 | What are the advantages of star topology? |
| **Section B**  4 x 5 = 20 marks | |
| 6 | Given a total of 10 units of a resource type, and given the safe state shown below, should process P2 be granted a request of 2 additional resources?  Process Used Max  P1 2 5  P2 1 6  P3 2 6  P4 1 2  P5 1 4 |
| 7 | What do you mean by page-fault? When does page-fault occur? Describe the action taken by the O.S when page fault occur |
| 8 | Explain CIA in detail |
| 9 | Write a short note on   1. levels of security measures   difference between security and protection |
| **Section C**  3 x 10 = 30 marks | |
| 10 | What are the different type of operating systems in detail. Also describe advantages and disadvantages of each type? |
| 11 | Explain the concept of FRAGMENTATION in detail |
| 12 | 1. What is the difference between a client and a server?   b)Distinguish between client-server and peer to peer models of distributed system. |