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**DEPARTMENT OF COMPUTER SCIENCE AND IT**

**3rd Semester MCA, Internal Test-1, October-2024**

**Subject: DESIGNING ENTERPRISE NETWORK (23MCASC301)**

**Time: 1 Hour Max. Marks: 25**

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| **Part - A** | | | | |
|  | **Answer Any FOUR Questions** | **4 x 5 = 20** | | |
| 1 | Explain in detail the Network-based Architectural styles. | 5 Marks | [CO1] | [L2] |
| 2 | Discuss the Business Goals and Constraints in detail. | 5 Marks | [CO1] | [L2] |
| 3 | Summarize the network design align with the company's strategic goals? | 5 Marks | [CO1] | [L2] |
| 4 | Explain performance issues are observed with the existing network? | 5 Marks | [CO1] | [L2] |
| 5 | Discuss the redundant design handle network failures. | 5 Marks | [CO2] | [L2] |
| 6 | Illustrate the principles of a secure network design topology. | 5 Marks | [CO2] | [L3] |
| 7 | Explain the benefits of using a hierarchical network design. | 5 Marks | [CO2] | [L2] |
| **Part – B** | | | | |
|  | **Compulsory Question to Answer** | **1 x 5 = 5** | | |
| 8 | Distinguish between access controls and authentication mechanisms. | 5 Marks | [CO2] | [L4] |