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**DEPARTMENT OF COMPUTER SCIENCE AND IT**

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

**Subject: CRYPTOGRAPHY AND NETWORK SECURITY (23MCAIS301)**

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

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| **Part - A** | | | | |
|  | **Answer Any FOUR Questions** | **4 x 5 = 20** | | |
| 1 | Explain in detail some real-world examples of security breaches. | 5 Marks | [CO1] | [L2] |
| 2 | Discuss the effectiveness of security measures. | 5 Marks | [CO1] | [L2] |
| 3 | Identify some emerging technologies in network security. | 5 Marks | [CO1] | [L2] |
| 4 | Classify the layered security approach overall network protection? | 5 Marks | [CO1] | [L2] |
| 5 | Describe the core principles of block ciphers, Give an example. | 5 Marks | [CO2] | [L2] |
| 6 | Explain the DES algorithm work, and what are its main components. | 5 Marks | [CO2] | [L2] |
| 7 | Discuss key characteristics of the Blowfish algorithm. | 5 Marks | [CO2] | [L2] |
| **Part – B** | | | | |
|  | **Compulsory Question to Answer** | **1 x 5 = 5** | | |
| 8 | Examine the fundamental principles behind public key cryptography. | 5 Marks | [CO2] | [L4] |