| Branch/Semester | Bsc (IT Cloud & Application Development) / II |
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| Subject Name: | Routing & Switching Technology |
| Subject Code: | 05CA0201 |
| Assignment: | Assignment No. 5 (Fundamentals of Ethernet LANs & Cisco IOS) |
| Due Date: | 07/03/2025 |
| Faculty Name: | Prof. Rishabh Singh |

| 1. | Explain the hierarchical file system structure within Cisco IOS devices. Discuss the role of Flash memory, NVRAM, and RAM in storing and managing IOS images and configuration files. |
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| 2. | Discuss the importance of backing up IOS images. Elaborate on the steps involved in backing up and restoring an IOS image using TFTP. Explain the potential risks and mitigation strategies associated with IOS image management. |
| 3. | Analyze the differences between enable password and enable secret. Explain why enable secret is the preferred method for protecting privileged EXEC mode. |