SUBJECT: COMPUTER NETWORK

LAB PRACTICAL – 02

1. Give difference between below network devices.

* Hub and Switch
* Switch and Router
* Router and Gateway

1. Working of below network devices.
   * Switch
   * Router
   * Gateway
2. D/B Hub and switch

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| --- | --- | --- |
| Features | HUB | SWITCH |
| Definition | An electronic device that connects many network device together so that devices can exchange data. | A computer networking device that connects many devices together on a computer network. A switch is considered more advanced than a hub because a switch will on send messeges to device that needs the requests. |
| Layer | Physical layer of OSI model. | Data link layer of OSI model. |
| Transmission type | Broadcast type transmission | Unicast, Multicast, Broadcast type transmission |
| Spanning Tree | No spanning tree | Many spanning tree possible |
| Manufacturers | Oracle, Sun System | Cisco, D-link |

1. D/B Switch and Router

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| --- | --- | --- |
| Features | Router | SWITCH |
| Definition |  |  |
| Layer | Network Layer | Data link Layer |
| Usage | Router is used on MAN as well as LAN |  |
| Spanning Tree |  |  |
| Manufacturers |  |  |