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5-CSE-10

2018ICSE0621

07/01/2021

Part-B

Q.3] Static Routing	Dynamic Routing
1. User defined routes are used in routing table	Routes are updated as per changes in network.
2. No complex algorithm to figure out shortest path	Uses complex algorithms to figure shortest path.
3. It provides higher security	It is less secure
4. It is a manual process	It is automatic process.
5. Its used in smaller networks	Its implemented in large networks.
6. It may not follow any specific protocol	Follows protocols like BGP, RIP, EIGRP
7. Does not require any additional resources	Requires additional resources like memory, bandwidth etc.

Left

→ Comparing various routing protocols :-

Features	RIP V1	RIP V2	IGRP	OSPF	EIGRP
• Classful/ Classless	Classful	Classless	Classful	Classless	Classless
• Metric	Hop	Hop	Composite (bw & delay)	Cost 100,000 BW	Composite (bw & delay)
• Periodic Advertisement	30 seconds	30 seconds	90 seconds	None	30 seconds
• Advertising address	255.255.255.255 (Broadcast)	224.0.0.9 (Multicast)	255.255.255.255 (Broadcast)	224.224.0.5 224.224.0.6 (Multicast)	224.0.0.10 (Multicast)
• Administrative Cost	120	120	100	110	Internal : 90 External : 170
• Category	Distance Vector	Distance Vector	Distance Vector	Link State	Hybrid