- 2. How Can Bit Evror Rate (BFR) Be Alininized In This Environment
  - 1. Use High quality cavling:
    - · use fibre optic cables on nigh-quade copper for short distances.
    - · Aviod damaged on poorly shielded
  - 2. Keep cable sengths short.
    - degradation.
      - ata centers usually have well-stewatured cabling
    - 3. Mre Everor Detection and Correction (EDC) Mechanism
      - o Implement Protocols like Forward Eurou Correction (FEC). Especially on high-Speed links
      - ent corrects but error in qual time.

A Data Center LAN connects Server And Switches with 10 4 pps Links

1. Which Switching Method is Best-Stare - and - Forwarding On cut - Through - For 10 4bps Answer

Stone - Forward Suntching:

- · waits for the entire data frame before forwarding
- · performs error checking (PC)
- . High lateray due to full frame Stanage

cut - Through Switching:

- o Forwards the Frame as soon as destanation MAC address is suad
- · offers much lower latercy
- o Does not check the entire frame for error

Recomended Method: aut-Through Switching

It how very low lateracy and

Fast data farwarding

- 4. Maintain Peroper Environment
  - e keep temperaltere and humidity level stable
  - Overheating netweak component
- 2. Regular Hardware Maintenance Clean Switches, replace faulty transceivers, check, connectors
  - "Update finware and devices drivers gar Nics and switches
  - 6. Use of Enterprise Grade Hardware

    "Switches and NICS from reputable
    manufacture offer better Noice