**Unit-1: Internetworking:**

**1. OSI stands for?**

Open Systems Interconnection

**2. ISO stands for?**

International Organization for Standardization

**3. RIP stands for?**

Routing Information Protocol

**4. IGRP stands for?**

Interior Gateway Routing Protocol.

**5. EIGRP stands for?**

Enhanced Interior Gateway Routing Protocol.

**6. OSPF stands for?**

Open Shortest Path First .

**7. MAC stands for?**

Media Access Control

**8. CSMA/CD stands for?**

Carrier Sense Multiple Access with Collision Detection.

**9. DET stands for?**

Deterministic Networking.

**10.DCE stands for?**

Data circuit-terminating equipment .

**11.FCS stands for?**

Frame check sequence

**12.AUI stands for?**

Attachment Unit Interface

**14. Cable used to attach a Console Port on Router/Switch ?**

RJ-45-to-RJ-45 console cable

**15. Name the sublayers of Data Link Layer ?**

The logical link control (LLC) sublayer and the media access control

(MAC) sublayer.

**16. PDU stands for ?**

Protocol data unit

**17. SDU stands for ?**

Service data unit

**18. Name the PDU at Data Link Layer**

The transport layer PDU is the TCP segment for TCP, and the datagram

for UDP. The Internet layer PDU is the packet. The link layer PDU is the

frame. PDU is bits (1s or 0s) for the transmission of data on the

network.

**19. Name the PDU at Transport Layer?**

The PDU of the Transport Layer is referred to as a segment based on

TCP (Transmission Control Protocol) and with UDP (User Datagram

Protocol) PDU is referred to as a datagram

**20. Cable used to attach two workstations directly ?**

**An Ethernet crossover** **cable** is a crossover cable for Ethernet used to

connect computing devices together directly.

**Unit-2: IOS**

**1. IOS Stands for \_\_\_\_\_\_\_\_\_\_?**

Internetwork Operating System

**2. Where does IOS stored in Cisco router?**

**Flash memory** stores fully functional Cisco IOS images and is the default location where the switch gets its Cisco IOS at boot time.

**3. What are the different configuration setup mode?**

* 1. User execution mode
  2. Privileged mode
  3. Global configuration mode
  4. Interface configuration mode

**4. \_\_\_\_\_\_\_\_ command will take you to the privillage mode in IOS?**

enable

**5. \_\_\_\_\_\_\_\_ command will take you back to usermode from privillage made?**

**Disable** or exit

**6. Which command can give basic information about networking protocol?**

**Show**

**7. What is post operation?**

**8. Which command will give you the basic information about networking product?**

**9. Which command will used for encypting the password manually?**

**(config)#**Service password-encryption

**10. MOTD banner stands for \_\_\_\_\_\_\_\_\_?**

Message of the Day

**11. How do you specify a fast ethernet interface in high end routers?**

**Router(config)#interface fastethernet 0/0**

**12. What is a default state of interface?**

Interface down, line protocol down (Shutdown)

**13. How do you make interface up?**

You can **turn off** an interface with interface command shutdown. **Turn it on** with the no shutdown command.

**14. What is VIP card?**

**Versatile Interface Processor** enables high-performance switching and scalable LAN/WAN intelligent network services to meet the needs of high-performance applications**.**

Cisco Versatile Interface Processors (VIPs) greatly increase the switching performance of Cisco 7000 and 7500 series routers and serve as ideal building blocks for new high-speed, high-density LAN and WAN port adapters.

**15. How to specify an interface for router having the VIP card?**

Syntax:

interface type slot/port adapter/port number

Ex.

**7000(config)#**interface ethernet 2/0/0

**Unit-3 VLAN:**

**1. VLAN stands for \_\_\_\_\_\_\_**

Virtual Local Area Networks.

**2. Which is flat network?**

Flat networks are designed to reduce the number of routers and switches on a computer network by connecting the devices to a single switch instead of separate switches.

**3. Define VMPS?**

**Book**

**4. VMPS stands for\_\_\_\_\_\_**

VLAN Management Policy Server

**5. What is frame color?**

**In Frame identification** or **Frame tagging method** an unique user defined id is assigned to each frame this Is sometimes called as VLAN ID or Color.

There is no special meaning; each packet/frame will have different color so that you can differentiate between/among them.

Each VLAN is differentiated by a color, or VLAN identifier. The unique VLAN ID determines the frame coloring for the VLAN.

**6. ISL stands for\_\_\_\_\_\_\_**

Inter-Switch Link

**7. Name the VLAN tagging protocol of CISCO\_\_\_\_\_\_**

ISL

**8. \_\_\_\_\_\_link carries traffic along in to multiple VLAN**

Trunk Link

**9. What is the size of ISL tag for the frame?**

The ISL frame encapsulation is of 30 bytes, 26 byte header, and a 4 byte FCS (frame check sequence) are inserted

**10. If network has multiple vendor switches and which frame tagging protocol needs to be used?**

IEEE 802.1q – IEEE VLAN tagging protocol. Since it is an open standard, it can be used **for tagging between switches** from different vendors.

**11. FDDI stands for\_\_\_\_\_\_**

FDDI (**Fiber Distributed Data Interface**) is a network standard that uses fiber optic connections in a local area network (LAN) that can extend in range up to 200 kilometers (124 miles)

**12. All VLAN traffics are configured on a trunk link by default(true/false)**

False

**13. \_\_\_\_\_is used Trunk negation**

1900EN(config-if)#**trunk on**

**oR**

no trunk-vlan <Vlan num>

**14. RSN stands for\_\_\_\_\_\_\_**

Robust Security Network

**15. Define static and dynamic membership?**

**16. VTP stands for\_\_\_\_\_**

VLAN Trunking Protocol

**17. Define router on a stick?**

**18. What is configuration revision number?**

The VLAN config. revision number tells VTP receiver whether or not it is to ignore the VTP advertisement.

The configuration revision number is a 32-bit number that indicates the level of revision for a VTP packet. Each VTP device tracks the VTP configuration revision number that is assigned to it. Most of the VTP packets contain the VTP configuration revision number of the sender.

**Unit-4: Switch Management:**

**1) IOS stands for \_\_\_\_**

Internetwork Operating System

**2) Using \_\_\_ port Switch can be connected to a terminal for configuring**

Switch has a console port on the back of the switch. It is an **RJ**-**45** port, and it uses a rolled cable to connect to a terminal

**3) Name the three modes of a Switch to read its status.**

* 1. Store-and-forward
  2. Cut-through
  3. Fragment-free

**4) To connect through an Uplink port \_\_\_ cable needs to be used**

Use **cat 5 Cross Over Cable** for connecting the Switches. Uplink ports are 100Mbps or more

**5) CLI is a \_\_\_\_\_\_\_\_**

**6) User Mode Password is known as \_\_\_\_\_\_**

Login pwd

**7) Give the command to verify the Switch Running Configuration**

show running-config (show run)

**8) Give the command to verify the ip on CISCO Switch**

show ip (or sh ip).

**9) Give the command to see the specifications of a given Switch interface.**

View the different interfaces with the **show interface** *or* **show running-config command.**

**10) What is the default duplex setting for 10BaseT interface?**

Half-duplex

**11) What is the default duplex setting for 100BaseT interface?**

Auto

**12) Sitich Configurations are stored in \_\_\_\_\_\_**

switch configuration is stored in **NVRAM** .

Your switch actually has two “config” types and locations. A switch's running config is stored in RAM. Its startup config is stored in nonvolatile memory.

**13) Give the command to reset a switch configuration**

Switch configuration is stored in NVRAM. So use the command

**Todd1900EN#**delete nvram.

**14) How will you get the mac address table in Switch?**

You can see the switch’s filter table by using the

command show mac-address-table.

**15) What is the term “Sticky Learns” in switches?**

Sticky-learns is a term Cisco uses for a **port** dynamically finding a source hardware address and creating a permanent entry in the MAC filter table.

**16) What are the operating modes for a switch?**

1. Store-and-forward.
2. Cut-through.
3. Fragment-free

**17) Give the command to know different vlans and its memberships on a Switch**

show vlan

**18) How to remove a given vlan from tunked port?**

Use clear trunk command if you don’t want a trunked link to carry VLAN information.

**1900EN(config-if)#**no trunk-vlan 5

**19) Trunked link carry all vlans by default. True/False?**

Yes, By default a trunk link carries all the VLANs that exist on the switch.

**20) VTP stands for \_\_\_\_**

VLAN Trunk Protocol (VTP)

**21) CDP stands for \_\_\_\_**

Cisco Discovery Protocol.

**UNIT-5 : Router Management:**

**1) What is Bootstrap?**

**2) What is POST ?**

**3) What is Rom monitor?**

**4) What is the use of NVRAM?**

**5) What is a Flash Memory?**

**6) Name two configuration Files in Routers.**

**7) Why Flash memory is used in Routers?**

In flash memory, the operating system of the router I.e. IOS (Internetwork Operating System) is available

**8) How to check the Flash memory size in a Router?**

You can verify the amount of flash memory and the file or files being stored in flash memory by using the show flash command (sh flash).

**9) FTP is a \_\_\_\_\_\_\_\_**

File Transfer Protocol.

**10) TFTP is a \_\_\_\_\_**

There are many freeware ***Trivial File Transfer Protocol (TFTP***) servers on the Internet which are able to perform maintenance activities on ..

**11) What is the default value of Configuration Register in CISCO Router?**

0x2102

**12) Bit no 0-3 in Configuration Register controls \_\_\_\_\_**

**-The Boot Field (0-3)**

00 ROM monitor mode

01 Boot image from ROM

02–F Specifies a default boot file name in NVRAM

**13) Bit no \_\_\_\_ of Configuration Register enables the Startup Configuration file**

6

**14) Which bit of Configuration Register controls Console Line speed?**

11–12 0x0800–0x1000 Console line speed

**15) Which command used to change configuration Register Value?**

You can change the configuration register by using the **config-register** command.

**Router(config)#**config-register 0x0101