

NPTEL COURSES:

Course Duration : 12 Week

Start – End : 24 July 2023 to 13 October 2023

Exam Registration End : 18 August 2023

Exam Date : 28 October 2023

- **Cloud Computing**
- **Ethical Hacking**
- **Introduction To Industry 4.0 And Industrial Internet Of Things**
- **Advanced Distributed Systems**

WEEK-0 [Cloud Computing]

- 1.Interrupts are handled in which mode? Ans: a (Kernal Mode)
- 2.Which device(s) need(s) physical address (MAC address)? Ans: a ,b ,c ,d
(Router, switch, bridge, hub)
- 3.Which of the following require(s) device driver(s)? Ans: d (Disk)
- 4.Which one of the following is not a client-server application? Ans: d (Ping)
5. Which of the following hierarchy is true for storage devices with respect to speed in decreasing order. Ans: a (register , cache , main memory , solid state disk , hard disk , optical disk , magnetic tapes)
- 6.In classful addressing , the IP address 128.255.255.255 belongs to which class? Ans: b (class B)
- 7.Which of the statements is true/false? Ans: b, c (CSMA/CA is wireless network , CSMA/CD is wired network)
8. Which of the statements is true/false for system calls? Ans: a (It allows user level processes to communicate with the OS)
- 9.Which of the following HTTP methods is used to update a resource at the server? Ans: d (Put)
- 10.In OSI network architecture , which layer supports congestion and flow controls ? Ans: b (Transport Layer)

WEEK-0 [Ethical Hacking]

1. What is ethical hacking ? Ans: b (Systematically attempts to penetrate/intrude into a computer system/network on behalf of its owner and finds out threats and vulnerabilities.)
2. Which of the following application(s) is/are used to secure personal laptop/desktop? Ans: a, d (Antivirus , Firewall)
3. Which of the following is/are example of social engineering attacks? Ans: a, b, c (Phishing ,Baiting , Vishing)
4. How you can secure your website? Ans: a, b, c, d (Using firewall ,Encrypting the Cookies ,Validating and Verifying user input ,Validating users parameters)
5. Which of the following is true for firewall? Ans: a, b, c (A firewall is a network security system ,Firewall can allows or blocks network traffic as per predetermined security rules ,Firewall are placed on the boundary of trusted and untrusted networks)
6. Which of the following Linux command can be used to view network configuration? Ans: b (ifconfig)
7. How many layers are there in OSI model? Ans:7
8. Which of the following is/are transport layer protocol(s)? Ans: a, b (UDP , TCP)
9. In IPv6, the number of bits used in IP address is Ans: 128
10. Which of the following command(s) can be used to check the reachability of one system from another? Ans: d (None of these)
11. Which of the following is/are a networking device? Ans: a, b, c(Hub ,Switch ,Router)
12. Which of the following is used to host a website? Ans: b (Webserver)
13. Which of the following network is used to cover small area like a room/building? Ans: a (LAN)

WEEK-0 [Introduction To Industry 4.0 And Industrial Internet Of Things]

1. What is the full form of IIoT? Ans: b (Industrial Internet of Things)
2. A central hub is used in which of the following topology? Ans: a (Star)
3. What is the full form of TCP? Ans: a (Transmission Control Protocol)
4. Which of the following is not a layer of TCP/IP? Ans: d (Internet Layer)
5. Fill in the blanks. E-mail stands for Ans: a (Electronic mail)
6. Fill in the blanks. The speed of Internet is represented by Ans: c (Gbps)
7. Which of the following sensor is used for sensing humidity and temperature?
Ans: b (DHT11)
8. What is the full form of WWW? Ans: a (World Wide Web)
9. Which of the following does not represents a network topology? Ans: a
(Truck)
10. Fill in the blanks- LAN stands for Ans: b (Local Area Network)