

ACN Question Bank UT2 K scheme

Subject Code:315321

Academic year:2025-26

ACN chapter -3 Transport layer protocol

2 Marks Questions

1. List any 2 features of TCP. (2m)
2. Enlist any two services offered by UDP. (2m)
3. What is UDP? Which services are provided by UDP (Any two)?
4. State the use of 6 flags in TCP header. (2m)
5. List two advantages of using UDP over TCP. (2m)

4 & 6 Marks Questions

1. Draw and explain TCP segment structure (4m)
2. List different timers used in TCP (4m)
3. State the need for (6m)
 - Sequence Control
 - Error Control
 - Flow Control in Networking
4. Compare TCP with UDP on any four points (4m)
5. Explain how TCP connections are established using 3 way handshake + What happens when 2 hosts simultaneously try to establish a connection?
6. Explain TCP connection management with the help of TCP connection
7. Management finite state machine. (6m)

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ACN chapter -4 Application layer protocol

2 Marks Questions

1. Elaborate need of domain name system
2. State the transmission modes of FTP.
3. Distinguish between SMTP and POP3 protocol (Any two points)
4. State the use of Telnet.
5. Differentiate between FTP and TFTP (any two points)

4 marks

1. Explain working of world wide web.
2. Explain the working of TELNET.
3. Construct a suitable diagram for each below commands of FTP to show its use
 - a. get
 - b. mget
 - c. put
 - d. mput
4. Describe the header fields in message format of e-mail system.
5. Compare POP3 with IMAP on below Points.
 - a. TCP Port used
 - b. E-mail Stored at
 - c. Time required to connect
 - d. Multiple mail boxes.
6. Explain about standard and non standard protocols at the application layer.
7. Explain the working of SSH.
8. Describe SMTP with suitable diagram.
9. Distinguish between SMTP & POP3 protocol.
10. Explain the process of resolving the given host name into IP address using DNS.
11. Define WWW. Explain static & dynamic web documents in details.
12. Explain the frame format of SSH

6 marks

1. Describe the architecture of e-mail system using four scenario.

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ACN chapter -5 Wireless Network protocol

2 Marks Questions

1. Define SDN and write its two applications.
2. Mention two benefits of SDN over traditional networks.
3. Define NFV and write its two benefits.
4. List three applications of NFV in telecom networks
5. Define edge computing and edge networking.
6. List any three components of edge computing.
7. Mention two challenges in implementing edge computing.
8. Write any two applications of multimedia wireless networks.
9. Define RTP and RTSP.
10. List two benefits of VoIP over traditional telephony.

4 Marks Questions

1. Draw and explain the architecture of SDN.
2. Describe the working of SDN with a neat diagram.
3. Explain at least three applications of SDN in real-world networks.
4. Draw the architecture of NFV and explain its components.
5. Explain the benefits and applications of NFV in modern networks.
6. Explain the architecture of edge computing with a neat diagram.
7. Discuss applications and challenges of edge computing in modern networks.
8. Explain streaming of audio and video over wireless networks.
9. Describe the working of VoIP with protocols RTP and RTSP.
10. Draw and explain the architecture of a multimedia wireless network.