

Time: 3 Hours

Total Marks: 80

N.B.: All questions are compulsory.

Q1. Attempt Any Two of the following:

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- a) Explain Application layer in TCP/IP?
- b) Explain IPv6 protocol?
- c) Explain functions of Physical Layer in OSI Model?

Q2. Attempt Any Two of the following:

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- a) Explain Address Resolution Protocol (ARP)?
- b) Explain the types of Internet Address Classes?
- c) Explain Error messages defined by ICMP protocol?

Q3. Attempt Any Two of the following:

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- a) Write short on "UDP PACKAGE".
- b) Explain TCP TIMERS in detail?
- c) Write short note on "multihoming"

Q4. Attempt Any Two of the following:

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- a) Explain advantages and disadvantages of packet Switching?
- b) Explain Distance-vector routing protocol?
- c) Explain header of UDP user datagram?

Q5. Attempt Any Two of the following:

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- a) What is Bootstrap Protocol?
- b) Explain SECURITY OF DNS?
- c) Explain DHCP OPERATION?

Q6. Attempt Any Two of the following:

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- a) What are Techniques to Improve QoS?
- b) Explain Web Client and Web Server?
- c) What is MIME?

Q7. Attempt Any Two of the following:

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- a) Explain steps of handshake process?
- b) Explain Communication Using UDP?
- c) Write Definition of Connection-less Service?

Q8. Attempt Any Two of the following:

10

- a) Explain DIGITIZING AUDIO AND VIDEO?
- b) Explain the types of FTP connections?
- c) What is Key Differences Between Connection-oriented and Connection-less Services?
