

Q.P. Code : 13124

[Time: Three Hours]

[Marks:80]

Please check whether you have got the right question paper.

N.B: 1. Question.No.1 is compulsory.

Q. 1 Answer (any 4)

- a) What are the functions of data link layer?
- b) What is IP address, MAC address and Port address
- c) How many networks and Hosts are possible using 'Class B' IP address? What is a subnet mask?
- d) Compare Windows and Linux Operating system
- e) What is p - persistent CSMA
- f) Compare Circuit switched and Packet switched networks

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Q. 2 a) Explain the frames of HDLC with a neat diagram.

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b) Explain the OSI model in detail. List the networking devices used at each layer of the OSI model

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Q. 3 a) Explain DVR with an example. What are the problems in DVR algorithm?

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b) What is the difference between Stop and wait and Sliding window protocol? Explain Selective Repeat technique

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Q. 4 a) Explain IP V4 header with a neat and labeled diagram,

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b) What is congestion? Explain any one algorithm to control congestion in a network

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Q. 5 a) Draw and explain TCP segment header.

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b) What is Routing? Explain OSPF in detail.

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Q. 6 Write short notes on (any 4)

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a) Satellite Communication

b) ALOHA and its types

c) Switches, Repeaters, Gateway

d) TCP timers

e) CRC with an example