

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)** 20
- What are the functions of data link layer?
 - What is IP address, MAC address and Port address.
 - How many networks and Hosts are possible using 'Class B' IP address? What is a subnet mask?
 - Compare Windows and Linux Operating system
 - What is p - persistent CSMA
 - Compare Circuit switched and Packet switched networks
- Q. 2** 10
- Explain the frames of HDLC with a neat diagram.
 - Explain the OSI model in detail. List the networking devices used at each layer of the OSI model
- Q. 3** 10
- Explain DVR with an example. What are the problems in DVR algorithm?
 - What is the difference between Stop and wait and Sliding window protocol? Explain Selective Repeat technique
- Q. 4** 10
- Explain IP V4 header with a neat and labeled diagram,
 - What is congestion? Explain any one algorithm to control congestion in a network
- Q. 5** 10
- Draw and explain TCP segment header.
 - What is Routing? Explain OSPF in detail.
- Q. 6** 20
- Write short notes on (any 4)
- Satellite Communication
 - ALOHA and its types
 - Switches, Repeaters, Gateway
 - TCP timers
 - CRC with an example
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