

7E - Sem - V - O.D - computers

CN

1/12/15

QP Code : 1707

(Time: 3 hrs)

(Marks: 100)

1. Question No 1 is compulsory.
2. Attempt any four out of the remaining six questions.

- Q1. (a) What are the design issues for layers? 05  
(b) What are the functions of the data link layer? Explain in brief. 05  
(c) Compare and contrast a circuit switching and packet switching network. 05  
(d) Explain the different classes of IPV4 addressing. 05
- Q2. (a) Discuss in detail wired and wireless transmission media. 10
- Q2. (b) What are the different internetworking devices? Mention the functions of each of them and state the OSI layer in which they operate. 10
- Q3. (a) Explain framing, flow and error control in Data Link Layer. 10  
Q3. (b) How is congestion control handled at the network layer? Explain in detail. 10
- Q4. (a) What is IPV4 protocol? Explain the IPV4 Header format with diagram. 10
- Q4. (b) An 8 bit byte with binary values 10101111 is to be encoded using an even parity Hamming code. What is the binary value after encoding? 10
- Q5 (a) What are the different types of routing algorithms? Explain Distance vector routing. 10  
Q5 (b) Explain the following 10  
i) TDMA and CDMA  
ii) DSL and ADSL
- Q6 (a) Explain Stop and wait protocol and sliding window protocol with example and suitable diagram. 10  
Q6 (b) What are transport service primitives? 10
- Q7. Write short notes on: (any two) 20  
i) Bluetooth Architecture  
ii) Congestion prevention policies  
iii) Comparison of 802.3 and 802.11
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QP-Con. 9262-15.

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