

Code No: R32041

R10

Set No: 1

III B.Tech. II Semester Supplementary Examinations, January -2014

COMPUTER NETWORKS

(Comm to Electronics and Communication Engineering & Electronics and Computer Engineering)

Time: 3 Hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Write about various classes of service primitives. [5+10]
(b) Draw the Novell Netware Reference model and IPX packet format? And explain.
2. (a) Write about Fiber Optic Networks. [8+7]
(b) Explain Knockout switch.
3. (a) Explain character Stuffing framing method with an example? Write disadvantages of it. [7+8]
(b) Write about CRC.
4. (a) Explain Persistent and Non Persistent CSMA. [8+7]
(b) Explain Slotted ALOHA.
5. (a) Write about distance Vector Routing. And discuss about Count-to-Infinity problem. [10+5]
(b) Write about Flooding.
6. (a) Explain Tunneling. [5+10]
(b) Write about Address Resolution Protocol.
7. (a) Draw the structure of the ATM Adaptation Layer and explain in detail. [10+5]
(b) Write about TCP Segment Header.
8. (a) Write the RSA Algorithm. [7+8]
(b) Explain DNS.

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Answer any FIVE Questions
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1. (a) Write two reasons for using layered protocols. Write about the design issues that occur in layers in computer networking.
(b) Explain various Network Topologies. [6+9]
2. (a) Write about Coaxial cables.
(b) Explain Batcher-Banyan switch. [6+9]
3. (a) Write about Bit Stuffing framing method with an example.
(b) Write about Hamming error correcting code with an example. [7+8]
4. (a) Explain Pure ALOHA.
(b) Write about Bit-Map Collision-Free Protocol. [7+8]
5. (a) Write about Multi Casting Routing algorithm.
(b) Write about Flooding. [9+6]
6. (a) Write the Leaky Bucket algorithm.
(b) Draw IP header? Explain each field. [7+8]
7. (a) Explain AAL2.
(b) Write Transport Layer services. [10+5]
8. (a) Write the Diffie-Hellman Key Exchange Algorithm.
(b) Explain SNMP. [7+8]

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1. (a) Explain the Original ARPANET design.
(b) Write about different classes of service primitives. [10+5]
2. (a) Write about Twisted Pairs.
(b) Write about Knockout switch. [7+8]
3. (a) Explain character Stuffing framing method with an example? Write disadvantages of it
(b) Write about CRC. [7+8]
4. (a) Write about Binary Countdown Collision-Free Protocol.
(b) Explain Slotted ALOHA. [8+7]
5. (a) Write about Distance Vector Routing Algorithm and Count-to-Infinity problem.
(b) Write about Broad Casting. [10+5]
6. (a) Write about Load Shedding.
(b) Write about Address Resolution Protocol. [7+8]
7. (a) Draw the structure of the ATM Adaptation Layer and explain in detail.
(b) Write about TCP Segment Header. [10+5]
8. (a) Write about the Key generation process in Double DES Algorithm.
(b) Explain DNS. [7+8]

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Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What is the need for layered protocols? Write about the design issues that occur in layers in computer networking.
(b) Explain LAN. [8+7]
2. (a) Write about Fiber Optic cables.
(b) Explain Batcher-Banyan switch. [6+9]
3. (a) Explain Bit Stuffing framing method with an example.
(b) Define Hamming Distance? Explain Hamming error correcting code. [7+8]
4. (a) Write about Bit-Map Collision-Free Protocol.
(b) Explain Spanning Tree Bridges. [8+7]
5. (a) Write about Shortest Path Routing algorithm.
(b) Write about Hierarchical Routing algorithm. [8+7]
6. (a) Write about Choke Packets.
(b) Explain Firewalls. [7+8]
7. (a) Explain AAL1.
(b) Write Transport Layer services. [10+5]
8. (a) Write the Diffie-Hellman Key Exchange Algorithm.
(b) Write about MIME. [8+7]
