

Code No: R32041

**R10****Set No: 1**

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

**COMPUTER NETWORKS**

(Comm to Electronics and Communication Engineering &amp; 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.

\*\*\*\*\*

Code No: R32041

**R10****Set No: 2**

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

**COMPUTER NETWORKS**

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

**Time: 3 Hours****Max Marks: 75**Answer any FIVE Questions  
All Questions carry equal marks

\*\*\*\*\*

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 Batch-Batch 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]

\*\*\*\*\*

Code No: R32041

**R10****Set No: 3**

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

**COMPUTER NETWORKS**

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

**Time: 3 Hours****Max Marks: 75**Answer any FIVE Questions  
All Questions carry equal marks

\*\*\*\*\*

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]

\*\*\*\*\*

Code No: R32041

**R10****Set No: 4**

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

**COMPUTER NETWORKS**

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

**Time: 3 Hours****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 Batch-Batch 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]

\*\*\*\*\*