Code.No: NR320502 | NR | SET-1

III B.TECH – II SEM EXAMINATIONS, DECEMBER - 2010
COMPUTER NETWORKS
(COMMON TO CSE, CSIT, ECC)

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks
- - -

1.a) Explain the architecture of OSI reference model layers.
b) Discuss interfaces and Services of ISO layers. [8+8]

2.a) Discuss Broad band ISDN layers.
b) Explain briefly ATM layers. [8+8]

3.a) Explain the algorithm for CRC method of error checking.
b) Explain about Date link layer in HDLC [8+8]

4.a) Briefly explain the operation of ALOHA system. Derive the expression for its channel efficiency.
b) Discuss the operation of CSMA/CD protocol. [8+8]

5.a) With an example explain RSVP protocol for congestion control.
b) What is count-to-infinity problem? Explain how it can be over come. [8+8]

6.a) Explain the format of IPv6 header.
b) Explain how routing and switching is done in ATM networks. [8+8]

7.a) Explain ATM Adaption layer(AAL).
b) Explain, how congestion is taken care in case of TCP. [8+8]

8. Write notes on any two:
i) SMTP
ii) POP3
iii) Internet working. [8+8]

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Code.No: NR320502 | NR | SET-2

III B.TECH – II SEM EXAMINATIONS, DECEMBER - 2010
COMPUTER NETWORKS
(COMMON TO CSE, CSIT, ECC)

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks
- - -

1.a) Explain the algorithm for CRC method of error checking.
b) Explain about Date link layer in HDLC [8+8]

2.a) Briefly explain the operation of ALOHA system. Derive the expression for its channel efficiency.
b) Discuss the operation of CSMA/CD protocol. [8+8]

3.a) With an example explain RSVP protocol for congestion control.
b) What is count-to-infinity problem? Explain how it can be over come. [8+8]

4.a) Explain the format of IPv6 header.
b) Explain how routing and switching is done in ATM networks. [8+8]

5.a) Explain ATM Adaption layer(AAL).
b) Explain, how congestion is taken care in case of TCP. [8+8]

6. Write notes on any two:
i) SMTP
ii) POP3
iii) Internet working. [8+8]

7.a) Explain the architecture of OSI reference model layers.
b) Discuss interfaces and Services of ISO layers. [8+8]

8.a) Discuss Broad band ISDN layers.
b) Explain briefly ATM layers. [8+8]

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Code.No: NR320502 | NR | SET-3

III B.TECH – II SEM EXAMINATIONS, DECEMBER - 2010
COMPUTER NETWORKS
(COMMON TO CSE, CSIT, ECC)

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks
- - -

1.a) With an example explain RSVP protocol for congestion control.
b) What is count-to-infinity problem? Explain how it can be over come. [8+8]

2.a) Explain the format of IPv6 header.
b) Explain how routing and switching is done in ATM networks. [8+8]

3.a) Explain ATM Adaption layer(AAL).
b) Explain, how congestion is taken care in case of TCP. [8+8]

4. Write notes on any two:
i) SMTP
ii) POP3
iii) Internet working. [8+8]

5.a) Explain the architecture of OSI reference model layers.
b) Discuss interfaces and Services of ISO layers. [8+8]

6.a) Discuss Broad band ISDN layers.
b) Explain briefly ATM layers. [8+8]

7.a) Explain the algorithm for CRC method of error checking.
b) Explain about Date link layer in HDLC [8+8]

8.a) Briefly explain the operation of ALOHA system. Derive the expression for its channel efficiency.
b) Discuss the operation of CSMA/CD protocol. [8+8]

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Code.No: NR320502 | NR | SET-4

III B.TECH – II SEM EXAMINATIONS, DECEMBER - 2010
COMPUTER NETWORKS
(COMMON TO CSE, CSIT, ECC)

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks
- - -

1.a) Explain ATM Adaption layer(AAL).
b) Explain, how congestion is taken care in case of TCP. [8+8]

2. Write notes on any two:
i) SMTP
ii) POP3
iii) Internet working. [8+8]

3.a) Explain the architecture of OSI reference model layers.
b) Discuss interfaces and Services of ISO layers. [8+8]

4.a) Discuss Broad band ISDN layers.
b) Explain briefly ATM layers. [8+8]

5.a) Explain the algorithm for CRC method of error checking.
b) Explain about Date link layer in HDLC [8+8]

6.a) Briefly explain the operation of ALOHA system. Derive the expression for its channel efficiency.
b) Discuss the operation of CSMA/CD protocol. [8+8]

7.a) With an example explain RSVP protocol for congestion control.
b) What is count-to-infinity problem? Explain how it can be over come. [8+8]

8.a) Explain the format of IPv6 header.
b) Explain how routing and switching is done in ATM networks. [8+8]

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