Code.No: NR410402 | NR | SET-1

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
COMPUTER NETWORKS
(COMMON TO ECE, EIE, ETM, BME, CSS)

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: NR410402 | NR | SET-2

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
COMPUTER NETWORKS
(COMMON TO ECE, EIE, ETM, BME, CSS)

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: NR410402 | NR | SET-3

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
COMPUTER NETWORKS
(COMMON TO ECE, EIE, ETM, BME, CSS)

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

Answer any FIVE questions
All questions carry equal marks

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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: NR410402 | NR | SET-4

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
COMPUTER NETWORKS
(COMMON TO ECE, EIE, ETM, BME, CSS)

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

Answer any FIVE questions
All questions carry equal marks

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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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