

RAMAKRISHNA MISSION VIVEKANANDA COLLEGE (AUTONOMOUS)
SEMESTER END EXAMINATIONS, APRIL - 2021
19UCSAM08 / 19UCAAM09
COMPUTER NETWORKS

TIME: 3 HRS.

MAX. MARKS: 75

PART - A

(10 x 2 = 20 marks)

Answer any TEN Questions.

1. What is peer-to-peer communication?
2. List the advantage of fiber optics.
3. Give a brief note on byte stuffing.
4. What is called stop and wait protocol?
5. Mention the purpose of Repeaters?
6. What is meant by Bluetooth?
7. Define Flooding.
8. What is Fragmentation? Give its types.
9. List down the five basic functions supported by e-mail systems.
10. What is an Internet Radio in Multimedia?
11. List down the fields related to Internet Message Format.
12. Write down the various fields of frame.

PART - B

(5 x 5 = 25 marks)

Answer any FIVE Questions.

13. What is wireless transmission? Explain the functioning of Radio and Microwave transmission with neat diagram.
14. Discuss about the two scenarios for protocol 4 in One-Bit Sliding Window Protocol.
15. Mention the distribution services provided by the 802.11 base stations to attach and detach.
16. Why Congestion occurs in networks? What are the various techniques of congestion Control?
17. Give the basic model of how the Web works?
18. What is Tunneling process? Explain.
19. Draw the architecture and mention the services of E-mail.

PART - C

(3 x 10 = 30 marks)

Answer any THREE Questions.

20. Explain any one reference model and describe their functions.
21. Write an algorithm for computing the checksum CRC polynomial code to illustrate the frame calculation in Error-Detection code.
22. Describe ALOHA, slotted ALOHA and discuss their throughput analysis.
23. Illustrate shortest path routing algorithm with suitable example.
24. Discuss in detail about the two army problem in the scenario of releasing a connection in transport layer.

RAMAKRISHNA MISSION VIVEKANANDA COLLEGE (AUTONOMOUS)
SEMESTER END EXAMINATIONS, APRIL - 2021

11UCSAE03
COMPUTER NETWORKS

TIME: 3 Hrs.

Max. Marks: 75

Section - A

Answer any TEN questions

(10 X 2 = 20)

1. Define minimum two purposes of Networks.
2. Specify two modes of communications system.
3. State the difference between OSI Model and TCP/IP Model.
4. Find the network address of 100.178.180.27.
5. What do you mean by three way handshake signals?
6. What is Hidden terminal problem?
7. Specify the range of Class A address.
8. What is the subnet mask for 193.168.45.6/26?
9. Why do you need the Li-Fi.
10. How do you understand the Wi-Fi.
11. What do you mean by 127.0.0.1?
12. Specify applications of Bluetooth Technology.

Section - B

Answer any FIVE questions

(5 X 5 = 25)

13. Show the Manchester encoding for bit pattern 11001101110101.
14. Find the data to be sent for the bit pattern 1011 using Hamming's Code.
15. Briefly explain about stop and wait protocol.
16. Explain the functionality of Scatternet.
17. One of the addresses in block is 167.130.87.7/27. Find the first and last address of the block.
18. Elucidate Distance Vector Routing in detail.
19. Discuss – Simple Network management Protocol in detail.

Section - C

Answer any THREE questions

(3 X 10 = 30)

20. Describe physical layer components in detail.
21. Using CRC method, compute the data to be sent for the Frame 1101011011 using the Generator polynomial x^4+x+1 .
22. Discuss ALOHA and CSMA protocol in detail.
23. How do you understand the Routing Algorithms? Explain it.
24. Explain RSA algorithm in detail.

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COMPUTER NETWORKS

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MAX. MARKS: 75

PART - A

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12. Write down the various fields of frame.

PART - B

Answer any FIVE Questions.

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RAMAKRISHNA MISSION VIVEKANANDA COLLEGE (AUTONOMOUS)

SEMESTER END EXAMINATIONS, APRIL - 2022

20UCAAM09 / 20UCSAM08

COMPUTER NETWORKS

TIME: 3 Hrs.

MAX. MARKS: 75

SECTION - A

Answer any TEN Questions.

10x2=20 Marks

1. What is packet switching?
2. Define Internet.
3. What is ARQ?
4. Define CRC.
5. What is CDMA?
6. Define token passing.
7. What is the need of Internet Control Protocol?
8. Define Link state routing.
9. What is UDP?
10. Define Remote Procedure Call.
11. What is Nagle's algorithm.
12. Define HTTP.

SECTION - B

Answer any FIVE Questions.

5x5=25 Marks

13. Differentiate between message switching and packet switching.
14. Briefly discuss the error correction mechanism.
15. Explain briefly about data link layer protocols.
16. Give an account on shortest path routing.
17. Explain briefly about IPv4 header format.
18. Write a brief note on Leaky bucket and Token bucket.
19. Explain the responsibilities of application layer.

SECTION - C

Answer any THREE Questions.

3x10=30 Marks

20. Elaborately discuss about transmission media.
21. Explain the issues related to data link layer.
22. Discuss about congestion control algorithms.
23. Describe the services of transport layer.
24. Explain the architecture of Ethernet and its categories.

RAMAKRISHNA MISSION VIVEKANANDA COLLEGE (AUTONOMOUS)
SEMESTER END EXAMINATIONS, NOVEMBER - 2020
16UCSAE02

COMPUTER NETWORKS

TIME: 3 HRS.

MAX. MARKS: 75

Section A

(10X2=20)

Answer any ten Questions.

1. What do you mean by Internet?
2. What is switching?
3. Define Error.
4. What is Protocol?
5. What do you mean by Channel Allocation?
6. What is Wireless LAN?
7. Define Routing.
8. What is IP Protocol?
9. What do you mean by Network Security?
10. What is WWW.
11. What do you mean by Communication Satellite?
12. What is DNS.

Section-B

(5X5=25)

Answer any five Questions.

13. Explain about Network Hardware.
14. Discuss about Elementary Data Link Protocol.
15. Discuss about Bluetooth.
16. Discuss about the Design issues of Network Layer.
17. Discuss about SNMP.
18. Explain ATM.
19. Discuss the advantages of Multimedia

(3X10=30)

Section C

Answer any Three Questions.

20. Explain about various types of Switching
21. Discuss about Error detection and Correction.
22. Discuss about Ethernet Wireless LAN.
23. Explain about Routing algorithms.
24. Discuss about TCP/IP

RAMAKRISHNA MISSION VIVEKANANDA COLLEGE (AUTONOMOUS)
SEMESTER END EXAMINATIONS, NOVEMBER - 2022
20UCSAM08
COMPUTER NETWORKS

TIME: 3 HRS.

MAX. MARKS: 75

SECTION - A

Answer any TEN Questions.

10x2=20 Marks

1. What is topology?
2. Define Wireless transmission media.
3. What is piggybacking?
4. Define Hamming Code.
5. Mention the use of Bluetooth.
6. What is CSMA/CD?
7. Define jitter?
8. What is a leaky bucket?
9. Define SNMP.
10. What is WWW?
11. Define non-adaptive routing.
12. What is a telnet?

SECTION - B

Answer any FIVE Questions.

5x5=25 Marks

13. Briefly discuss about communication satellites.
14. How sliding window protocol manage the data frames transmission?
15. Explain briefly the categories of Ethernet.
16. Give an account on design issues related to network layer.
17. Compare IPv4 and IPv6 with a neat diagram.
18. Explain simple transport protocol services.
19. Write a brief note on DNS.

SECTION - C

Answer any THREE Questions.

3x10=30 Marks

20. Explain the layers of OSI Model with a neat diagram.
21. Explain various error detection techniques with an example.
22. Discuss about multiple access protocols
23. Describe the various IP address class.
24. Explain the elements of transport protocols.

RAMAKRISHNA MISSION VIVEKANANDA COLLEGE (AUTONOMOUS)
SEMESTER END EXAMINATIONS, NOVEMBER - 2017

15UCSAE02 / 15UCAAE01
COMPUTER NETWORKS

Max. Marks: 75

TIME: 3 HRS.

SECTION -A

(10X2=20)

ANSWER ANY TEN QUESTIONS

1. What do you mean by data communication?
2. Define Network?
3. List any four application networks?
4. Explain briefly the need for DNS?
5. What is meant by Bluetooth?
6. Sketch the format of IP Address?
7. What is Synchronous transmission?
8. What is meant by Multimedia?
9. List the responsibilities of data link layer?
10. What is Circuit Switching?
11. Define the term of Transmission media?
12. Define WWW?

SECTION -B

(5X5=25)

ANSWER ANY FIVE QUESTIONS

13. Describe the method of deducting errors?
14. Briefly explain unguided media?
15. What is meant by switching? Specify different methods of switching followed by Network layer?
16. What is meant by World Wide Web? Explain?
17. Briefly explain TCP/IP?
18. Explain about routing algorithms?
19. Briefly explain Standard Ethernet?

SECTION-C

(3X10=30)

ANSWER ANY THREE QUESTIONS

20. Describe the functions of layers of OSI Model?
21. Explain the Sliding window protocol and specify its features?
22. Explain Architecture of Bluetooth?
23. Explain the Guided Media?
24. Explain various concepts of Simple Network Management Protocol (SNMP)?

RAMAKRISHNA MISSION VIVEKANANDA COLLEGE (AUTONOMOUS)
SEMESTER END EXAMINATIONS, NOVEMBER - 2017

15UCSAE02 / 15UCAAE01
COMPUTER NETWORKS

TIME: 3 HRS.

MAX. MARKS: 75

SECTION -A

ANSWER ANY TEN QUESTIONS

(10X2=20)

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- Define Network?
- List any four application networks?
- Explain briefly the need for DNS?
- What is meant by Bluetooth?
- Sketch the format of IP Address?
- What is Synchronous transmission?
- What is meant by Multimedia?
- List the responsibilities of data link layer?
1. What is Circuit Switching?
1. Define the term of Transmission media?
2. Define WWW?

SECTION -B

ANSWER ANY FIVE QUESTIONS

(5X5=25)

3. Describe the method of deducting errors?
4. Briefly explain unguided media?
5. What is meant by switching? Specify different methods of switching followed by Network layer?
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7. Briefly explain TCP/IP?
8. Explain about routing algorithms?
9. Briefly explain Standard Ethernet?

SECTION-C

ANSWER ANY THREE QUESTIONS

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1. Explain the Sliding window protocol and specify its features?
2. Explain Architecture of Bluetooth?
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