G.S.Mandal's
Marathwada Institute of Technology, Aurangabad
Department of Electronics and Telecommunication Engineering

Course Name: - Computer Communication Network **Course Code: - EXD-451**
Academic Year: - 2017-18 **Semester: - VIII [B.E]**

Question Bank: - I

Unit I: - Introduction Computer Communication Network

Q. Answer the following questions in detail. (7/8 Marks Each)

[1] What are the different computer networks? Explain with suitable diagram.

[2] What are the different design issues of network?

[3] Compare and contrast circuit switching, message switching and packet switching.

[4] With the help of suitable diagram explain ISO-OSI reference model and compare it with TCP/IP model.

[5] In packet switching how the packets are handled explain

[6] What do you mean by topologies? Explain in brief topologies of network

[7] Compare and contrast between LAN, MAN and WAN.

[8] Differentiate between client server model and peer to peer mode of network.

[9] Draw and explain detailed structure of WAN.

[10] Draw and explain TCP/IP reference model.

Due date for Submission: ***20th Jan 2018***

Mr.Pankaj R. Bhusari
[Assistant Professor]
Course Teacher

G.S.Mandal's
Marathwada Institute of Technology, Aurangabad
Department of Electronics and Telecommunication Engineering

Course Name: - Computer Communication Network **Course Code: - EXD-451**
Academic Year: - 2017-18 **Semester: - VIII [B.E]**

Question Bank: - II

Unit II: - Link Perspective and Network Perspective

Q. Answer the following questions in details. (7/8 Marks Each)

[1] What are the different issues of data link layer?

[2] What do you mean by protocol? Explain stop and wait protocol, in detail

[3] Explain in detail distance vector routing algorithm

[4] What are the different internet transport protocols? Explain TCP

[5] Explain in detail shortest path routing algorithm

[6] What are the different issues of network layer?

[7] Write a short note on

a) Sliding window prococol
b) Routing algorithm
c) Hierarchical routing
d) Congestion control
e) Framing
f) RTP
g) RPC
h) Leaky bucket algorithm

[8] Identify the classes of following IP addresses:

a) 127.255.255.255
b) 191.255.10.255
c) 223.255.11.255
d) 239.255.255.255
e) 255.255.255.255
f) 172.32.255.255

Due date for Submission: ***3rd Feb 2018***

Mr.Pankaj R. Bhusari
[Assistant Professor]
Course Teacher

G.S.Mandal's
Marathwada Institute of Technology, Aurangabad
Department of Electronics and Telecommunication Engineering

Course Name: - Computer Communication Network **Course Code: - EXD-451**
Academic Year: - 2017-18 **Semester: - VIII [B.E]**

Question Bank: - III

Unit III: - The Transport Layer and Application Layer

Q. Answer the following questions in detail. **(7/8 Marks Each)**

[1] Explain in detail elements of transport protocol.

[2] Explain in brief http and www.

[3] What are the different Internet transport protocols? Explain TCP.

[4] Explain procedure for creating a web page in HTML.

[5] With the help of suitable diagram explain TCP connection establishment.

[6] Write a short note no:

a) Quality of service
b) User datagram packet
c) Domain name system
d) Connection oriented and connectionless services
e) SMITP
f) Service primitives
g) E-mail

Due date for Submission: ***17th Feb 2018***

Mr.Pankaj R. Bhusari
[Assistant Professor]
Course Teacher

G.S.Mandal's
Marathwada Institute of Technology, Aurangabad
Department of Electronics and Telecommunication Engineering

Course Name: - Computer Communication Network **Course Code: - EXD-451**
Academic Year: - 2017-18 **Semester: - VIII [B.E]**

Question Bank: - IV

Unit IV: - ISDN

Q. Answer the following questions in details. **(7/8 Marks Each)**

[1] Describe basic rate user network interface of ISDN.

[2] Draw and explain functional architecture of B-ISDN.

[3] What are the different services provided by ISDN?

[4] Compare narrow band and wide band ISDN.

[5] Draw and explain conceptual view of ISDN.

[6] Draw and explain ISDN protocol architecture at the user network interface.

[7] What are the different principals of ISDN?

[8] Explain transmission structure of ISDN.

[9] Describe Primary ISDN interface.

[10] Write a short note on:

a) ISDN addressing

b) Layers of ISDN

c) Physical layer of ISDN

Due date for Submission: ***3rd Mar 2018***

Mr.Pankaj R. Bhusari
[Assistant Professor]
Course Teacher

G.S.Mandal's
Marathwada Institute of Technology, Aurangabad
Department of Electronics and Telecommunication Engineering

Course Name: - Computer Communication Network **Course Code: - EXD-451**
Academic Year: - 2017-18 **Semester: - VIII [B.E]**

Question Bank: - V

Unit V: - Frame Relay and ATM

Q. Answer the following questions in details. (7/8 Marks Each)

[1] Draw and explain the standard frame relay format

[2] Give the classification frame relay virtual circuit and explain.

[3] Explain in brief ATM protocol architecture.

[4] Explain in detail frame mode protocol architecture at the user network interface

[5] Discuss on ATM virtual path and virtual channel

[6] Discuss on congestion notification mechanism in frame relay

[7] Explain in brief ATM cell format

[8] Write a short note on DLCI

[9] Draw ATM cell format

Due date for Submission: ***17th Mar 2018***

Mr.Pankaj R. Bhusari
[Assistant Professor]
Course Teacher

G.S.Mandal's
Marathwada Institute of Technology, Aurangabad
Department of Electronics and Telecommunication Engineering

Course Name: - Computer Communication Network **Course Code: - EXD-451**
Academic Year: - 2017-18 **Semester: - VIII [B.E]**

Question Bank: - VI

Unit VI: - Cryptography and Network Security

Q. Answer the following questions in details. (7/8 Marks Each)

[1] What do you mean by cryptography? Explain public key algorithm RSA.

[2] What is stenography? Explain how stenography is used.

[3] Explain how steganography is used in image processing?

[4] Explain how steganography is used in audio system

[5] Discuss in brief traditional cryptography techniques.

[6] What do you mean by cryptography? Explain secret key algorithm.

[7] What are the different applications of steganography?

[8] Explain different coding used in steganography.

[9] Write a short note on:

a) Secret key algorithm
b) Public key algorithm
c) Stream cipher
d) RSA

Due date for Submission: ***31th Mar 2018***

Mr.Pankaj R. Bhusari
[Assistant Professor]
Course Teacher