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AS-432

M.Sc. (Computer Sc.) II Semester (New) Examination July 2019

ADVANCED COMPUTER NETWORK

MCSC-202

Time Allowed : Three Hours] *[Maximum Marks : 85*

Section - A
Objective Type Questions

Q.1. i) Which address is used in an internet employing the TCP/IP protocols?

(a) Physical address and logical address
(b) Port address
(c) Specific address
(d) All of the mentioned

ii) Transmission data rate is decided by

(a) Network layer
(b) Physical layer
(c) Data link layer
(d) Transport layer

iii) Which of the following would be found in a Data Link layer header?

(a) The packet's fragmentation offset
(b) The source's logical address
(c) The packet's sequence number
(d) The source's physical address

iv) In OSI network architecture, the routing is performed by

(a) Network layer (b) Data link layer
(c) Transport layer (d) Session layer

v) In one of the pairs of protocols given below, both the protocolos can use multiple TCP connections between the same client and the server. Which one is that?

(a) HTTP, FTP (b) HTTP, TELNET
(c) FTP, SMTP (d) HTTP, SMTP

Section - B
Short Answer Type Questions

Q.2. Describe about protocols and standards.

OR

Describe about first two layers of TCP/IP protocol suite.

Q.3. Describe about some security protocols.

OR

What is Cipher text and its use?

Q.4. What is IP multicasting?

OR

Describe about DHCP technique.

Q.5. What do you understand by transaction oriented applications?

OR

What do you understand by ports?

Q.6. Describe about authentication Header.

OR

Describe about digital certificate.

Section - C
Long Answer Type Questions

Q.7. Explain the OSI model in details.

OR

Explain about different networking devices in detail.

Q.8. Explain about different techniques used in cryptography.

OR

Explain about classical encryption techniques with their advantages and disadvantages.

Q.9. Explain about different security related issues in detail.

OR

Explain about different multicasting routing protocols in detail.

Q.10. Explain about socket class and methods of socket.

OR

Explain about ICMP, IGMP, CP and UDP.

Q.11. Explain about different key distribution protocols.

OR

Explain about different cyber-crime and cyber laws in details.