S-775

Total Pages : 3   Roll No. --------------

MCS-506

Introduction of Computer Networks

(MCA/MSCIT)

2nd /4th Semester, Examination 2022(Dec.)

Time: 2 Hours   Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

Q.1. Describe OSI model in detail. Compare OSI model with TCP-IP model.

Q.2. Briefly explain the concept of DNS, IPV6 and FTP.

Q.3. What is firewall? Explain the types of firewalls in detail.

Q.4. What is Virtual Private Network (VPN)? Explain the difference between Intranet and Extranet.

Q.5. What is IP address class? Describe various classes of IP address.

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

Q.1. Explain DTE-DCE interface.

Q.2. Explain symmetric and asymmetric key cryptography with example.

Q.3. What is Internet? What are the applications of Internet? Explain.

Q.4. Differentiate between Baseband and Broadband Signals.

Q.5. Explain the following terms:
    i.   Frequency-Division Multiplexing (FDM)
    ii.   Wavelength-Division Multiplexing
    iii.   Time-Division Multiplexing (TDM)

Q.6. Explain the difference between Bit rate and Baud rate.

Q.7. What are the Possible Modes of communication? Explain.

Q.8. Write short notes on the following;
    i.   HDLC
    ii.   Cyclic Redundancy Checks
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