

(Time: 3 Hours)

Total Marks: 80

Please check whether you have got the right question paper.

- N.B. :** 1) Question No.1 is **compulsory**.
2) Attempt any **three** from the remaining **five** questions.
3) Figures to the right indicate full marks.

1. (a) Explain IEEE 802.3 standard in detail. [10]
(b) Explain types of networking devices in detail. [10]
2. (a) Differentiate between the following (**any two**): [10]
(i) RIP and BGP
(ii) Switch and Router
(iii) POP and IMAP
(b) Describe various queue management algorithms used by TCP. [10]
3. (a) Calculate CRC for the following bitstream 11101011011 using the divisor 1011. [10]
(b) Define congestion. Discuss how congestion is handled by the TCP protocol. [10]
4. (a) What is classful and classless addressing? Explain classful addressing in detail. [10]
(b) Explain Electronic mail? How SMTP is used in E-mail? [10]
5. (a) Explain OSI Layer in detail. [10]
(b) What is the requirement of MPLS? Describe the features of MPLS. [10]
6. (a) Write short note on following(**any two**): [10]
(i) SNMP
(ii) IP over ATM
(iii) DNS
(iv) HTTP
(b) Explain guided media in detail. [10]
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