

P131/CMP506/EE/20170531

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
-

1. Solve any **four** sub-questions.
 - a) Explain 'Half duplex' and 'Full duplex' with diagram. 5
 - b) Write Advantages of 'Microwave' over 'Fiber optics'. 5
 - c) Write a short note on 'Protocol'. 5
 - d) Write disadvantages of Network. 5
 - e) Define 'Propagation Time' and explain its use. 5
2. Solve any **four** sub-questions.
 - a) Explain several factors that affect the 'Bit Error Rate' (BER). 5
 - b) Write advantages of 'Star topology'. 5
 - c) Explain 'Multipoint Line configurations.' 5
 - d) Explain disadvantages of fiber optic cable. 5
 - e) Write the basic functions or duties of the 'Data Link Layer'. 5
3. Solve any **four** sub-questions.
 - a) Write a note 'Mesh Topology'. 5
 - b) How many Hamming bits are required when using the hamming code with the extended ASCII synchronous message "Help!"? 5
 - c) Explain Data Communication and its components. 5
 - d) Explain protocol and its elements. 5
 - e) Explain Electronic - mail with example. 5

4. Solve any **four** sub-questions.
- a) What is network topology? Explain RING topology with advantage and Disadvantage. 5
 - b) Explain Tree topology with advantage and Disadvantage. 5
 - c) Explain HUB? 5
 - d) Write a note on Gateway. 5
 - e) Explain unguided media. 5

