

PART B — (5 × 16 = 80 marks)

11. (a) Discuss about any two guided transmission media and unguided transmission media in detail with suitable diagram. (16)

Or

- (b) (i) Explain ISO/OSI reference model in detail with suitable example. (8)
(ii) Briefly discuss about any two recent modem standards in detail. (8)
12. (a) What is the purpose of stop and wait protocol? Discuss its design with sender and receiver side algorithm. (16)

Or

- (b) (i) Explain the MAC layer frame format in detail with suitable frame design. (10)
(ii) Write note about sliding window protocol in detail. (6)
13. (a) (i) What do you mean by sub-netting and masking? Explain them in detail with suitable example. (6)
(ii) How to map the logical address into physical address? Explain it in detail with an example. (10)

Or

- (b) (i) Briefly discuss about link state routing in detail with suitable example. (10)
(ii) Write short note about routing table and router. (6)
14. (a) (i) Mention the responsibilities of transport layer. (4)
(ii) Compare connection oriented protocol and connectionless protocol. (4)
(iii) Discuss briefly about UDP. (8)

Or

- (b) (i) Explain how connection has been established and terminated in TCP in detail. (10)
(ii) How to avoid the congestion in TCP? Explain it in detail. (6)

15. (a) Briefly discuss about Domain Name space in detail with an example. (16)

Or

(b) Explain the following terms in detail with suitable example.

(i) SMTP and HTTP (6)

(ii) Architecture of WWW (6)

(iii) Symmetric key cryptography. (4)