we need a
(a) To interconnect two homogeneous WANs.
2 \times 10 = 20

1. Choose the correct answer of the following:

Answer all questions.

(Objective Type Questions)

Group - A

Answer from both the Groups as directed.
The figures in the margin indicate full marks.

Candidates are required to give their answers in
Full Marks: 80
Time: 3 hours

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BCA(II) / 13 / 15
ME-101
(4)
Contd.

ME-101(100)
(5)
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Group - B

(Long-answer type questions)

Answer any four questions of the following:

15 x 4 = 60

1. Explain ring and tree topologies along with their advantages and disadvantages.

2. (a) Differentiate Bridge, Router and Repeater.
    (b) Differentiate Guided and Unguided media.

3. Explain the duties of each layer of the OSI model.

4. (i) Fast Ethernet operates at:
    (i) 10 mbps
    (ii) 100 mbps
    (iii) 1000 mbps
    (iv) None of these

5. Explain different types of switching techniques along with their advantages and disadvantages.

6. Describe the frame structure of SDLC. How HDLC frame format is superior to SDLC frame format?

7. Discuss Distance Vector and Link-State Routing in detail.

8. (a) Write short notes on IP addresses.
    (b) Explain classful and classless addressing.

9. Discuss TCP and UDP transport layer protocol in detail.