

NOVEMBER/DECEMBER 2019

**BCS53 — DATA COMMUNICATION AND NETWORKS**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is the function of interface?
2. What are the types of Transmission Media?
3. Brief about the two types of errors.
4. What are the responsibilities of data link layer?
5. What are the different types of multicast routing?
6. What does routing metric mean?
7. What is TCP?
8. Define Congestion.
9. What is the function of DNS?
10. What are the functions of email?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Brief about three guided media.  
Or  
(b) Describe about coaxial cable with a diagram.
12. (a) Explain the design issues in data link layer.  
Or  
(b) Describe about the static channel allocation in LAN and MAN.
13. (a) Explain about congestion control.  
Or  
(b) Enumerate multicast routing.
14. (a) Explain Multiplexing.  
Or  
(b) Discuss about TCP service model.
15. (a) Explain Domain Name Server with example.  
Or  
(b) Brief the functions of e-mail systems.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain OSI reference model.
17. Elaborate the function of ALOHA protocol.
18. Explain the shortest path routing.
19. Discuss about the flow control issue in transport layer.
20. Explain about Name servers.

