

1. What is a network topology?

- A. The speed of a network
 - B. The physical or logical arrangement of devices in a network
 - C. The brand of network cables
 - D. The type of operating system used
-

2. Which topology uses a central device like a hub or switch?

- A. Bus
 - B. Ring
 - C. Star
 - D. Mesh
-

3. In which topology does all data travel along a single main cable?

- A. Star
 - B. Bus
 - C. Mesh
 - D. Tree
-

4. What happens in a star topology if the central switch fails?

- A. Only one computer stops working
 - B. The entire network stops working
 - C. The network becomes faster
 - D. Nothing happens
-

5. Which topology connects each device to exactly two other devices, forming a circle?

- A. Star
 - B. Bus
 - C. Ring
 - D. Mesh
-

6. Which topology is MOST expensive due to many cable connections?

- A. Bus
 - B. Star
 - C. Ring
 - D. Mesh
-

7. (Situational)

A small computer shop wants an inexpensive network using minimal cable. Which topology is BEST?

- A. Mesh
 - B. Star
 - C. Bus
 - D. Tree
-

8. Which topology is easiest to install and manage?

- A. Mesh
 - B. Star
 - C. Ring
 - D. Bus
-

9. In which topology does data travel in one direction only?

- A. Bus
 - B. Ring
 - C. Star
 - D. Tree
-

10. Which topology provides the highest level of redundancy?

- A. Bus
 - B. Ring
 - C. Star
 - D. Mesh
-

11. (Situational)

A school network wants to ensure that even if one cable fails, communication still continues. Which topology should be used?

- A. Bus
 - B. Ring
 - C. Mesh
 - D. Star
-

12. Which topology is commonly used in modern LANs?

- A. Bus
 - B. Ring
 - C. Star
 - D. Hybrid
-

13. What is a major disadvantage of bus topology?

- A. High cost
 - B. Difficult troubleshooting
 - C. Cable failure affects entire network
 - D. Needs many switches
-

14. Which topology combines two or more different topologies?

- A. Star
 - B. Ring
 - C. Hybrid
 - D. Bus
-

15. In a ring topology, what happens if one computer breaks down (without backup)?

- A. Only that computer is affected
 - B. The entire network stops
 - C. Network speed increases
 - D. Nothing happens
-

16. (Situational)

An office uses a central switch where each computer has its own cable. What topology is used?

- A. Bus
 - B. Ring
 - C. Star
 - D. Mesh
-

17. Which topology is hardest to troubleshoot?

- A. Star
 - B. Ring
 - C. Bus
 - D. Mesh
-

18. Which topology uses a backbone cable?

- A. Star
 - B. Bus
 - C. Mesh
 - D. Tree
-

19. What topology is also known as hierarchical topology?

- A. Bus
 - B. Tree
 - C. Mesh
 - D. Ring
-

20. Which topology is BEST for large organizations with many departments?

- A. Bus
 - B. Tree
 - C. Ring
 - D. Star
-

21. (Situational)

A company wants to connect branch networks under a main network. Which topology fits best?

- A. Star
 - B. Tree
 - C. Bus
 - D. Ring
-

22. Which topology requires terminators at both ends of the cable?

- A. Ring
 - B. Star
 - C. Bus
 - D. Mesh
-

23. Which topology is MOST affected by network traffic congestion?

- A. Star
 - B. Mesh
 - C. Bus
 - D. Tree
-

24. In which topology does each node have a dedicated connection to every other node?

- A. Star
 - B. Mesh
 - C. Bus
 - D. Ring
-

25. (Situational)

A technician wants a network where adding or removing computers is easy. Which topology should be used?

- A. Bus
- B. Ring

- C. Star
 - D. Mesh
-

26. Which topology is rarely used today due to performance issues?

- A. Star
 - B. Bus
 - C. Mesh
 - D. Tree
-

27. Which topology provides easy fault isolation?

- A. Bus
 - B. Ring
 - C. Star
 - D. Mesh
-

28. What is the main disadvantage of mesh topology?

- A. Low speed
 - B. High cost
 - C. Easy failure
 - D. Poor security
-

29. (Situational)

If one computer in a star topology fails, what happens?

- A. Entire network stops
 - B. Network becomes slower
 - C. Only that computer is affected
 - D. All computers restart
-

30. Which topology is best described as point-to-point connections?

- A. Bus
- B. Ring

- C. Star
 - D. Mesh
-

31. What device is commonly used at the center of a star topology?

- A. Router
 - B. Hub or Switch
 - C. Modem
 - D. Firewall
-

32. Which topology uses token passing?

- A. Bus
 - B. Star
 - C. Ring
 - D. Mesh
-

33. Which topology is easiest to expand?

- A. Bus
 - B. Ring
 - C. Star
 - D. Mesh
-

34. (Situational)

A network admin wants to detect problems quickly. Which topology should be chosen?

- A. Bus
 - B. Ring
 - C. Star
 - D. Mesh
-

35. Which topology is least reliable?

- A. Star
- B. Mesh

- C. Bus
 - D. Tree
-

36. Which topology is commonly used in Ethernet networks?

- A. Ring
 - B. Star
 - C. Bus
 - D. Mesh
-

37. Which topology has a single point of failure?

- A. Mesh
 - B. Ring
 - C. Star
 - D. Bus
-

38. (Situational)

If a backbone cable is cut, which topology will fail completely?

- A. Star
 - B. Bus
 - C. Mesh
 - D. Hybrid
-

39. Which topology provides the best security?

- A. Bus
 - B. Ring
 - C. Star
 - D. Mesh
-

40. Which topology is most complex to install?

- A. Bus
- B. Star

- C. Ring
 - D. Mesh
-

41. What is the main advantage of star topology?

- A. Uses less cable
 - B. Easy troubleshooting
 - C. No central device needed
 - D. Cheapest setup
-

42. Which topology is best for temporary networks?

- A. Mesh
 - B. Bus
 - C. Tree
 - D. Ring
-

43. (Situational)

A LAN in a computer laboratory uses a switch and UTP cables per PC. What topology is this?

- A. Bus
 - B. Ring
 - C. Star
 - D. Tree
-

44. Which topology requires more maintenance?

- A. Bus
 - B. Ring
 - C. Star
 - D. Mesh
-

45. Which topology supports high data transmission reliability?

- A. Bus
- B. Ring

- C. Mesh
 - D. Star
-

46. Which topology is NOT suitable for large networks?

- A. Star
 - B. Tree
 - C. Mesh
 - D. Bus
-

47. (Situational)

A small office wants low cost but accepts slower speed. Which topology is suitable?

- A. Mesh
 - B. Bus
 - C. Star
 - D. Tree
-

48. Which topology uses parent-child relationships?

- A. Ring
 - B. Star
 - C. Tree
 - D. Mesh
-

49. Which topology can suffer from data collision?

- A. Star
 - B. Mesh
 - C. Bus
 - D. Tree
-

50. Which topology is MOST fault-tolerant?

- A. Bus
- B. Ring

C. Star
D. Mesh

Answer Key

1. **B**
2. **C**
3. **B**
4. **B**
5. **C**
6. **D**
7. **C**
8. **B**
9. **B**
10. **D**
11. **C**
12. **C**
13. **C**
14. **C**
15. **B**
16. **C**
17. **D**
18. **B**
19. **B**
20. **B**
21. **B**
22. **C**
23. **C**

- 24. **B**
- 25. **C**
- 26. **B**
- 27. **C**
- 28. **B**
- 29. **C**
- 30. **D**
- 31. **B**
- 32. **C**
- 33. **C**
- 34. **C**
- 35. **C**
- 36. **B**
- 37. **C**
- 38. **B**
- 39. **D**
- 40. **D**
- 41. **B**
- 42. **B**
- 43. **C**
- 44. **D**
- 45. **C**
- 46. **D**
- 47. **B**
- 48. **C**
- 49. **C**
- 50. **D**

