

# Trilogy Technical Question Paper

**Q1. Which one is not done by Data link layer?**

- a) Bit stuffing
- b) LRC
- c) CRC
- d) Parity check

**Q2. A node has the IP address 138.50.10.7 and 138.50.10.9. But it is transmitting data from node 1 to node 2 only. The reason may be**

- a) a node cannot have more than one address
- b) class A should have second octet different
- c) class B should have second octet different
- d) All the above

**Q3. Which of the following is true?**

- a) bridge connects dissimilar LAN and protocol insensitive
- b) router connects dissimilar LAN and protocol insensitive
- c) gateway connects dissimilar LAN and protocol insensitive
- d) none of the above

**Q4. Unix system is**

- a) multi processing
- b) multi processing ,multi-user
- c) multi processing ,multi-user, multitasking
- d) multi-user, multitasking

**Q5. TCP/IP can work on**

- a) Ethernet
- b) token ring
- c) Both a &b
- d) none

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**Q6. Which one is not suitable for client-server application?**

- a) TCP/IP
- b) message passing
- c) RPC
- d) none of the above.

**Q7. 30. x.25 protocol encapsulates which of the following layers?**

- a) network
- b) data link
- c) physical
- d) all of the above
- e) none of the above

**Q8. The OSI layer from bottom to top, for an application which exceeds 64k, the memory model should be**

- a) medium
- b) huge
- c) large
- d) none

**Q9. Which one is not needed for Multi-program environment?**

- a) virtual memory
- b) security
- c) time sharing
- d) none of the above.

**Q10.**

*const char \**  
*char \* const*

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What is the difference between the above two?

Q11. Semaphore variable is different from ordinary variable by?

Q12. In Unix inter process communication take place using?

Q13. Compare Ring network with Ethernet.

Q14. To ensure one program, does not corrupt other program in a Multi-program environment, what you should do?

Q15. Which one is not related to Data link layer?

Q16. Which one you will use to implement critical section?

**ANS:** Binary Semaphore

Q17. What is inheritance, encapsulation?

Q18. What is the protocol used in Ethernet?(CSMA/CD) Why is it called so?

Q19. What is the advantage of Ring network?

Q20. How can I find out how much memory is available?

Q21. If there are too many page faults what is the problem?

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**Q22.** What is wrong with the call `fopen(c: ewdirfile.dat, r)`?

**Q23.** How can I increase the allowable number of simultaneously open files?

**Q24.** How can I allocate arrays or structures bigger than 64K?

**Q25.** How can I read a directory in a C program?