

CS 150E LONG EXAM 3 SET A

1. EXPAND THE ACRONYMS (1 PT EACH)

- (1) TCP/IP
- (2) LAN
- (3) CSMA/CD
- (4) DWDM
- (5) HTTP
- (6) ARP
- (7) DNS
- (8) UDP
- (9) FDDI
- (10) SMTP

2. ENUMERATION

- (1) Enumerate the layers in the OSI/ISO model (in proper order. 7 pts)
- (2) Three different network topologies (3 pts)

3. ESSAY (4 PTS EACH)

- (1) Differentiate Connectionless from Connection-Oriented Protocols
- (2) Differentiate Single-mode Fiber from Multi-mode Fiber
- (3) Differentiate Circuit from Packet Switching
- (4) Differentiate LAN from WAN
- (5) Differentiate TCP from UDP

4. OSI LAYERS (1 PT EACH)

Identify the ISO/OSI layer in which the following devices reside:

- (1) Router
- (2) Switch
- (3) Bridge
- (4) Repeater
- (5) Hub
- (6) Brouter
- (7) Gateway
- (8) Network Interface Card
- (9) Switching Hub
- (10) Wireless Access Point

5. PROTOCOL (1 PT EACH)

Identify whether the following protocol are Shared Media/Wireless, LAN or WAN protocols:

- FDDI
- TDM
- Token Ring
- DWDM
- Ethernet
- Fast Ethernet
- Frame Relay
- FDM
- ATM
- ISDN

6. BONUS (20 PTS)

Give the merits of open source software? Write a good business case for it.

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