Module 1: Introduction to Computer Networking

Total points 110/110

The respondent's email (rnirosh134@cicracampus.net) was recorded on submission of this form.

✓	What are the two additional layers that we have in IOS/OSI reference model compared to TCP/IP model?	*10/10
0	Presentation and Network	
0	Session and Transport	
0	Network and Transport	
	Session and Presentation	✓

10/10
✓

✓	Wireshark Packet sniffer *	10/10
0	captures all application layer messages and cannot used to analyse transport data.	layer
•	helps to analyse data link, network, transport and application layer protocols.	✓
0	captures all message, but cannot use to analyse application layer protocols.	
/	Network layer protocol encapsulates data-link layer segment and create a network-layer datagram	*10/10
0	True	
•	False	✓
~	Suppose users share a 1 Gbps (Gigabits per second) link and each user transmits continuously at 100 Mbps (Megabits per second) when transmitting, but each user transmits only 50% percent at the time. Assume that the network use packet switching. Which of the following statements is correct?	*10/10
0	If 10 users transmit simultaneously, then there will be a significant queuing de before the link.	lay
0	Since we use packet switching, we can have any number of users and they can transmit packets without a delay.	n
•	If 22 users transmit simultaneously, then there will be a queuing delay just before the link.	✓

✓ In TCP/IP model, each layer can perform all the tasks separately and not relying on the services provided by the layer below.	is * 10/10
TrueFalse	✓
Suppose multiple users share a 40 Mbps link and each user transmits continuously at 10 Mbps. However, when they are transmitting, each user transmits only 40 % of the time. When circuit switching is used, how many users can be supported?	s * 10/10
O 1	
O 6	
○ 8	
O 2	
4	✓

•		How long does it take to transmit 1500 Bytes in 100 kbps (kilobits per second link)?	*10/10
(\bigcirc	0.015 S	
(\bigcirc	0.15 S	
(\bigcirc	1.2 S	
(\bigcirc	0. 2 S	
(•	0.12 S	✓
•		When a packet is transmitted in a network link (optical/wireless/copper), it travels through that transmission medium to reach its destination. The time taken for a single bit to propagate from the link to its destination is called "propagation delay" which depends on the distance between the sender and the receiver and the link's propagation speed.	*10/10
		Propagation Delay = Distance between the sender and receiver/ link speed.	
		Let's say we are sending packets from Melbourne to Sydney (900 km) via an optical fibre. The propagation speed of the optical fibre is 3×108 m/s. What would be the propagation delay that those packets experienced?	
(•	3 ms	~
(\bigcirc	3 s	
(\bigcirc	300 ms	
(0	0.03 s	

!

✓ Which layer does not belong to the TCP/IP model? *	10/10
Presentation LayerTransport Layer	✓
Data-Link Layer Network Layer	
Application Layer	
✓ Which of the following protocol is not supported by the application layer of TCP/IP module?	*10/10
О НТТР	
O DNS	
SMTP	
▼ TCP	✓

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