Assignment Type:	Assignment	Collaboration Policy:	Defau
	Networking Models	Collaboration Folicy.	DCIau
Assignment Title:	Networking widders		
Protocols and Standard	S		
1. [5/ /0] What	RFC covers the IETF stan	idards process?	
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2 [10/ /0] Soon	orio. Vou oro o notavorte one	ringer at a private comperation of	and ana
		gineer at a private corporation, a company. What RFCs should you	
		complete sentences; spelling ar	
count.	ual property concerns: Use	complete sentences, spennig at	iu graiiiili
Count.			
3. [10/ /0] List t	he goals of the Internet Sta	andards Process?	
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4. [5//0] When	n did RFCs begin, and fron	n what networking project did th	ney origina
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SY205 – Net: OPS & Analysis	Name(s):				
Alpha(s):					
Protocol Sequence Diagrams					
5. $[10/_/0]$ Draw a protocol sequence diagram based on Alice and Bob exchanging the following statements in order.					
 Alice → Bob: Hello 	Bob → Alice: Hello				
• Alice → Bob: I speak in protocols	Bob → Alice: Me too!				
• Bob → Alice: I need to be going no	w Alice → Bob: Okay, bye				
Alice	Bob				

6. $[10/_/0]$ Draw a protocol sequence diagram based on Alice, Bob, and Cedric exchanging the following statements in order.

• Bob → Cedric: Hello Cedric → Bob: Hello

• Bob → Cedric: Do you have the time? Cedric → Bob: No, try asking Alice

• Bob \rightarrow Alice: Hello, do you have the time? Alice \rightarrow Bob: Yes, it's 11:10.

Alice	Bob	Cedric

SY205 – Net: OPS & Analysis Nam	Name(s):		
Alpl	na(s):		
Packets			
7. $[10/_/0]$ Draw a protocol sequence dia following packet payloads. Represent a packet as separators for the components of a packet. La packet footer with an F . Label each packet paylo	s a rectangular box, use dashed lines in the box bel each packet header with an H , label each		
 Alice → Bob: P1 	Bob → Alice: P2		
• Alice → Bob: P3	Bob → Alice: P4		
• Bob → Alice: P5	Alice → Bob: P6		
Alice	Bob		
8. [10//0] Draw a protocol sequence dia follow messages. Represent a packet as a rectang packet's payload size to a maximum of eight cha complete message has been received.	gular box, and label as in Question 7. Limit a racters. A receiver cannot start responding until a		
 Alice → Bob: IPv6 hosts fragment Bob → Alice: Makes core fast 	Bob → Alice: Not the core network Alice → Bob: And simple		
Alice	Bob		

SY205 – Net: OPS & Analysis	Name(s): _					
Data Encapsulation	Alpna(s):					
Duta Encapsulation						
9. [10 / / 0] Label the below encapsulated packet using the below protocol and packet terms, some terms may be used more than once, based on the following scenario. Scenario: You send a Tweet from your phone. Twitter runs over HTTPS, which uses TCP at the Transport layer. Your phone is connected to a WiFi network and has an IPv4 address; IPv4 operates at the Network layer. WiFi is the IEEE 802.11 family of Data Link layer specifications. Of these protocols only WiFi has a footer.						
header footer	WiFi tweet	TCP	IPv4			
Use the following scenario for Questions 10–11. Scenario: You are wired into the network in Bancroft Hall and are sending a 2 MB (2,097,152 bytes) image as an email (SMTP Application layer). SMTP uses TCP at the Transport Layer. USNA uses IPv4 on the intranet. The table below lists relevant header and payload sizes in bytes.						
Protocol	Header (Byte	es) Pay	vload (Bytes) 1500			
Ethernet IPv4	20		1300			
TCP	40					
10. [10 / / 0] Calculate the number of packets required to send the email message across the network. Show your work for partial credit.						
11. [10 / / 0] Calculate the overall networking overhead percentage for sending the image via email. Show your work for partial credit.						