Fall,	1997
Tsai	

Name	:

MIS 214 – Fundamental of Data Communication Exam 2

Part I: closed book(s) and note(s)		
	Name the interface between three local area networks which same protocol and the third one uses a different protocol.	
1.		
(3 points) II. area network.	Name the interface between a local area network and wide	
1.		
	Give the name of the best local area network protocol to be vironment where the traffic is light.	
1.		
	Give the name of the best local area network protocol to be uring environment which needs a constant transmission	
1.		
(3 points) V. computers and cent	Name the architecture to connect several mainframe ralized data processing systems.	
1.		
	Name the architecture to connect several minicomputers processing systems.	
1.		
(6 points) VII. data between data t	Name three error detection methods used in transmitting erminal equipment	
1. 2.		
3.		

(3 points) VIII. which is not used in	Name the layer of Open System Interconnection Model a frame relay wide area network.
1.	
(6 points) IX.	Name the three desirable data link protocols attributes.
1. 2. 3.	
(6 points) X. link protocols.	Name the three types of classification for synchronous data
1. 2. 3.	
(3 points) XI. communication between	Name the e-mail protocol which is used to govern ween mail hosts in USA.
1.	
(6 points) XII. network manageme	Name three types of security needed to be addressed as ent issues.
1. 2. 3.	
(2 points) XIII.	Name the most safe conversion plan.
1.	

Fall,	1997
Tsai	

Name	:

MIS 214 – Fundamental of Data Communication Exam 2

Part II: Open book(s) an Note(s)

(50 points) SAC Computer Inc. began manufacturing computers many years ago. The firm has grown and expanded over the years. Today, SAC Computer is a leader in the field of computer industry. The company designs and builds specialized computer systems for a variety of customers such as banks, hospitals, wholesale and retail business, transportation industry, and manufacturing industry. The company has many divisions located throughtout the country. SAC employs thousands of engineers, designers, assembly line workers, supporting personal (accounting, marketing, sales etc.) and managers who need a communication system(s) to make their work easier and more efficient. SAC Computer Inc. has hired you to design a modern and integrated voice and data telecommunication networks in terms of the following requirements:

- Types of network;
- 2. Network architecture;

3. Network topologies;

4.	Network software;
5	Network hardware;
6.	Network protocols;
7.	Backbone networks;
8.	Network service providers and services;
9.	Network security;
10.	Communication channels; and

11. Diagram.