

NAME: \_\_\_\_\_

SCORE: \_\_\_\_\_

CLOSED BOOK. YOU CAN HAVE ONE SHEET OF NOTES. EACH QUESTION IS WORTH 20 POINTS.

## 1. True or False

T \_\_\_\_ F X *Atomic transactions* guarantee *at most once* semantics.T \_\_\_\_ F X The Windows NT scheduler partitions the CPU time into *epochs*.2. What is the major advantage of *streams* over *datagrams*?

Streams ensure that all messages will arrive in the order they have been sent, without errors and without duplicates.

## 3. Consider the following set of parameters for a System V resale 4 scheduler with four priority levels:

#ts_quantum	ts_tqexp	ts_slpret	ts_maxwait	ts_lwait	LEVEL
800	X	1	1000	1	# 0
400	0	2	1000	2	# 1
200	1	3	200	3	# 2
100	2	Y	200	3	# 3

Which are the sole reasonable values for X and Y?

X= 1 and Y= 34. How do you pass a *linked list* to a *remote procedure*?

You store the linked list into an array and pass it to the remote server along with instructions describing how to rebuild the list.

5. What is the difference between *blocking sends* and *non-blocking sends*?

A blocking send does not return until the receiving process has actually received the message.

A non-blocking send returns as soon as the message has been accepted for later delivery by the OS.