

1. Define or explain each of the following:

- a) a sequential access file
- b) interactive use of a computer
- c) multiprogramming
- d) a terminal
- e) an index to a file
- f) file organization
- g) an inverted file

2. In a program called XK201, show all the statements required to read a record from tape number 10 whose record layout is as follows:

<u>Position</u>	<u>Variable Name</u>	<u>Form</u>
1-9	NSS	integer
10-37	N1,N2,N3,N4,N5,N6,N7	alphabetic
38-39	NEXMPT	integer
40-45	SALARY	XXXX^XX
46-50	DEDS	XXX^XX
51-57	YTDPAY	XXXXX^XX

3. Suppose a bank has a file containing data on the status of each customer's checking account, organized by social security number. Each day they need to print out this record for a number of customers, given the required social security number.

- a) If this file is on magnetic tape, devise a procedure that will result in printing the desired checking account records.
- b) Prepare an overall flow chart for the computer program that causes these records to be printed.
- c) Suppose this customer checking account file is a direct access file rather than a tape file. Modify the procedure in part a) to use the direct access file to print these records.
- d) Prepare an overall flow chart for the computer program that causes these records to be printed from the direct access file.