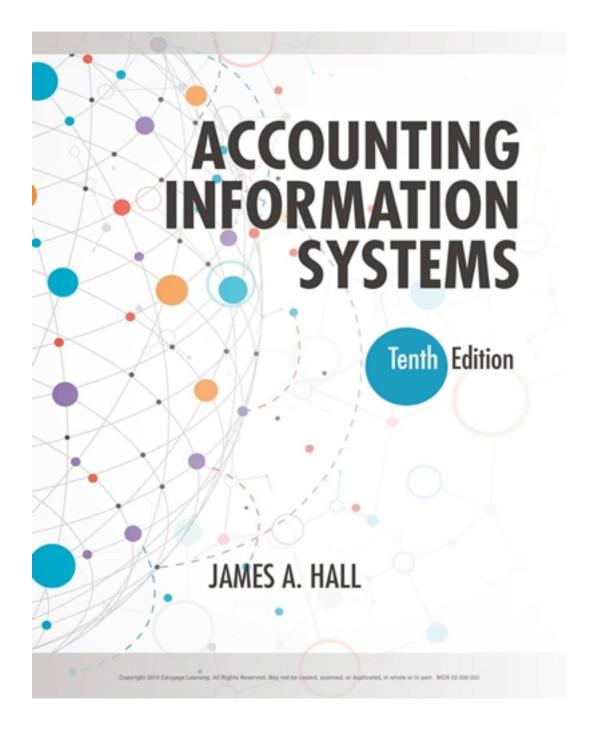
## Test Bank for Accounting Information Systems 10th Edition by Hall

## CLICK HERE TO ACCESS COMPLETE Test Bank



# Test Bank

## TRUE/FALSE

1 : Processing	more transactions	at a lowe	r unit cos	t makes	batch	processing	more	efficient
than real-time	systems.							

A : true B : false

Correct Answer: A

2: The process of acquiring raw materials is part of the conversion cycle.

A : true B : false

Correct Answer: B

3 : Directing work-in-process through its various stages of manufacturing is part of the conversion cycle.

A: true B: false

Correct Answer: A

4 : The portion of the monthly bill that the customer returns to the credit card company with the payment is an example of a turnaround document.

A : true B : false

Correct Answer: A

5: The general journal is used to record recurring transactions that are similar in nature.

A : true B : false

Correct Answer: B

6: Document flowcharts are used to represent systems at different levels of detail.

A : true B : false

Correct Answer: B

7: Data flow diagrams represent the physical system.

A : true B : false

Correct Answer: B

8 : System flowcharts are often used to depict processes that are handled in batches.

A: true B: false

Correct Answer: A

9 : Program flowcharts depict the type of media being used (paper, magnetic tape, or disks) and terminals.

A : true B : false

Correct Answer: B

10 : System flowcharts represent the input sources, programs, and output products of a computer system.

A: true B: false

Correct Answer: A

11: Program flowcharts are used to describe the logic represented in system flowcharts.

A: true B: false

Correct Answer: A

12 : Batch processing systems can store data on direct access storage devices.

A: true B: false

Correct Answer: A

13 : Selecting a specific record from a master file containing millions of records requires a direct access file environment.

A: true B: false

Correct Answer: A

14: The box symbol represents a temporary file.

A: true B: false

Correct Answer: B

15: Auditors may prepare program flowcharts to verify the correctness of program logic.

A: true B: false

Correct Answer: A

16: A control account is a general ledger account which is supported by a subsidiary ledger.

A: true B: false

Correct Answer: A

17: The most significant characteristic of direct access files is access speed.

A : true B : false

Correct Answer: A

18 : Real-time processing is used for routine transactions in large numbers.

A : true B : false

Correct Answer: B

19: Batch processing is best used when timely information is needed because this method processes data efficiently.

A : true B : false

Correct Answer: B

20 : An inverted triangle with the letter N represents a file in name order.

A: true B: false

Correct Answer: B

21 : Real-time processing in systems that handle large volumes of transactions each day can create operational inefficiencies.

A: true B: false

Correct Answer: A

22 : Operational inefficiencies occur because accounts unique to many concurrent transactions need to be updated in real time.

A: true B: false

Correct Answer: B

23 : Operational inefficiencies occur because accounts common to many concurrent transactions need to be updated in real time.

A: true B: false

Correct Answer: A

24: Batch processing of non-critical accounts improves operational efficiency.

A: true B: false

Correct Answer: A

25 : Batch processing of accounts common to many concurrent transactions reduces operational efficiency.

A : true B : false

Correct Answer: B

26: The block code is the coding scheme most appropriate for a chart of accounts.

A : true B : false

Correct Answer: A

27 : Sequential codes may be used to represent complex items or events involving two or more pieces of related data.

A: true B: false

Correct Answer: B

28 : Block codes restrict each class to a pre-specified range.

A: true B: false

Correct Answer: A

29: For a given field size, a system that uses alphabetic codes can represent far more situations than a system with that uses numeric codes.

A: true B: false

Correct Answer: A

30 : Mnemonic codes are appropriate for items in either an ascending or descending sequence, such as the numbering of checks or source documents.

A: true B: false

Correct Answer: B

31: The flat-file approach is most often associated with so-called legacy systems.

A : true B : false

Correct Answer: A

32: In a flat-file system, files are easily shared by users.

A: true B: false

Correct Answer: B

33: To avoid deadlocks, batch processing is recommended for general ledger accounts.

A : true B : false Correct Answer: A

34 : A key feature of a database management system is that users are given access only to the information they need to perform their jobs.

A: true B : false

ledger.

Correct Answer: A

SHORT RESPONSE						
35 : List two of the three transaction cycles.						
Correct Answer : expenditure cycle, conversion cycle, revenue cycle						
36: Documents that are created at the beginning of the transaction are called						
Correct Answer : source documents						
37 : are the two data processing approaches used in modern systems.						
Correct Answer : Batch processing and real-time processing						
38 : Give a specific example of a turnaround document.						
Correct Answer : credit card, electricity, water, or telephone bill, etc.						
39 : Explain when it is appropriate to use special journals.						
Correct Answer: Special journals are used to record large volumes of recurring transactions that are similar in nature.						
40 : What are the subsystems of the revenue cycle?						
Correct Answer : sales order processing, cash receipts						
41 : What are the subsystems of the expenditure cycle?						
Correct Answer : purchasing, cash disbursements, payroll, fixed asset system						
42 : Most organizations have replaced the general journal with a						
Correct Answer : journal voucher system						

43 : Provide a specific example of a general ledger account and a corresponding subsidiary

Correct Answer: accounts receivable control account and accounts receivable subsidiary, accounts payable control account and accounts payable subsidiary, inventory control and a subsidiary of specific inventory items, fixed asset control account and a subsidiary of specific fixed assets, notes receivable/payable and individual notes receivable and payable

44 : Name four documentation techniques.

Correct Answer: entity relationship diagrams, data flow diagrams, system flowcharts, program flowcharts

45: Why is the audit trail important?

Correct Answer: The audit trail is used to track transactions from the source document to the financial statements and vice versa. Accountants use the audit trail to correct errors, answer queries, and perform audits.

46: What is a ledger?

Correct Answer: A ledger is a book of accounts that reflects the financial effects of the firm's transactions after they are posted from the journals. Ledgers show activity by account type.

47 : Only four symbols are used in data flow diagrams. What are they?

Correct Answer: process, data store, data flow, entity

48 : Which documentation technique depicts relationship between business entities in databases?

Correct Answer: entity relationship diagram

49 : What are the three characteristics that are used to distinguish between batch and real-time systems.

Correct Answer: time frame, resources, operational efficiency

50 : Give one advantages of real-time data collection.

Correct Answer: Certain transaction errors can be prevented or detected and corrected at their source.

51: In one sentence, what does updating a master file record involve?

Correct Answer: Updating a master file record involves changing the value of one or more of its variable fields to reflect the effects of a transaction.

52: What are the two broad classes of file technologies?

Correct Answer: Flat files and databases

53 : Explain two types of coding schemes and give examples of their use.

Correct Answer: Sequential codes represent items in some sequential order. Pre-numbered checks are one example.? Block codes use sequential numbering in specific parts of the total

CLICK HERE TO ACCESS THE COMPLETE Test Bank code—all current assets begin with '11,' fixed assets '12,' etc. Traditional charts of accounts use block codes and start assets with 1, liabilities with 2, etc.? Alphabetic codes are similar to numeric codes with increased options. A two-character code AA has potential for 676 items (262) whereas a two-digit code can accommodate only 100 (102).?Mnemonic codes use letters with meaning. The postal state abbreviations are mnemonic.

## **MULTIPLE CHOICE**

54: Which system is not part of the expenditure cycle?

A: cash disbursements

B: payroll

C: production planning/control D: purchases/accounts payable

Correct Answer: C

55: Which system produces information used for inventory valuation, budgeting, cost control, performance reporting, and make-buy decisions?

A: sales order processing

B: purchases/accounts payable

C: cash disbursements

D: cost accounting

Correct Answer: D

56: Which of the following is a turnaround document?

A: remittance advice

B: sales order

C: purchase order

D: payroll check

Correct Answer: A

57 : A ledger is organized by

A: transaction number

B: account number

C: date D: user

Correct Answer: B

58: The order of the entries made in the general journal is by

A: date

B: account number

C: user

D: customer number

Correct Answer: A

59: In general, a special journal would not be used to record

A: sales

CLICK HERE TO ACCESS THE COMPLETE Test Bank B: cash disbursements C: depreciation D: purchases Correct Answer: C 60: Which account is least likely to have a subsidiary ledger? A: sales B: accounts receivable C: fixed assets D: inventory

Correct Answer: A

61: Subsidiary ledgers are used in manual accounting environments. What file is comparable to a subsidiary ledger in a computerized environment?

A: archive file B: reference file C: transaction file D: master file

Correct Answer: D

62: A journal is used in manual accounting environments. What file is comparable to a journal in a computerized environment?

A: archive file B: reference file C: transaction file

D: master file

Correct Answer: A

63: In a computerized environment, a list of authorized suppliers would be found in the

A: master file B: transaction file C: reference file D: archive file

Correct Answer: C

64: Which of the following is an archive file? A: an accounts payable subsidiary ledger

B: a cash receipts file

C: a list of approved suppliers

D: a file of accounts receivable that have been written off

Correct Answer: D

65: Which document is not a type of source document?

A: a sales order

B: an employee time card

C: a paycheck

D: a sales return receipt

Correct Answer: C

66: The most important purpose of a turnaround document is to

A : serve as a source document

B: inform a customer of the outstanding amount payable

C: provide an audit trail for the external auditor

D: inform the bank of electronic funds deposits

Correct Answer: A

67: Which type of graphical documentation represents systems at different levels of detail?

A : data flow diagram

B: document flowchart

C: system flowchart

D: program flowchart

Correct Answer: A

68: Data flow diagrams

A: depict logical tasks that are being performed, but not who is performing them

B : illustrate the relationship between processes, and the documents that flow between them and trigger activities

C: represent relationships between key elements of the computer system

D : describe in detail the logic of the process

Correct Answer: A

69: System flowcharts

A: depict logical tasks that are being performed, but not who is performing them

B: illustrate the relationship between database entities in systems

C: represent relationships between key elements of both manual and computer systems

D: describe the internal logic of computer applications in systems

Correct Answer: C

70: When determining the batch size, which consideration is the least important?

A: achieving economies by grouping together large numbers of transactions

B: complying with legal mandates

C: providing control over the transaction process

D: balancing the trade-off between batch size and error detection

Correct Answer: B

71: In contrast to a real-time system, in a batch processing system

A: there is a lag between the time when the economic event occurs and the financial records are updated

B: relatively more resources are required

C: a greater resource commitment per unit of output is required

D: processing takes place when the economic event occurs

Correct Answer: A

## 72: In contrast to a batch processing system, in a real-time system A: a lag occurs between the time of the economic event and when the transaction is recorded B: relatively fewer hardware, programming, and training resources are required C: a lesser resource commitment per unit of output is required D : processing takes place when the economic event occurs Correct Answer: D 73: The type of transaction most suitable for batch processing is A: airline reservations B: credit authorization C: payroll processing D: adjustments to perpetual inventory Correct Answer: C 74: The type of transaction most suitable for real-time processing is A: recording fixed asset purchases B: recording interest earned on long-term bonds C: adjusting prepaid insurance D: recording a sale on account Correct Answer: D 75 : A(n) structure employs an algorithm that converts the primary key of a record directly into a storage address. A: hashing B: indexed C : pointer D: sequential Correct Answer: A 76: Both the revenue and the expenditure cycle can be viewed as having two key parts. These are A: manual and computerized B: physical and financial C: input and output D: batch and real-time Correct Answer: B 77: All of the following can provide evidence of an economic event except A: source document B: turnaround document C: master document

D : product document

Correct Answer: C

78: An entity is

A: a physical resource

B: an event

C:

Correct Answer: A

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85 : The characteristics that distinguish between batch and real-time systems include all of the following except

A: time frame

B: resources used

C: file format

D: efficiency of processing

Correct Answer: C

86: A file that stores data used as a standard when processing transactions is

A: a reference file B: a master file C: a transaction file D: an archive file

Correct Answer: A

87 : Sequential storage means

A: data is stored on tape

B: access is achieved through an index

C: access is direct

D: reading record 100 requires first reading records 1 to 99

Correct Answer: D

88 : Real-time processing would be most beneficial in handling a firms

A: fixed asset records

B: retained earnings information

C: merchandise inventory

D: depreciation records

Correct Answer: C

89: Which accounting application is least suited to batch processing?

A: general ledger B: vendor payments

C: sales order processing

D : payroll

Correct Answer: C

90: Which accounting application is best suited to batch processing?

A: general ledger

B: updating inventory reductions to the subsidiary ledger

C: sales order processing

D: payroll processing

Correct Answer: D

91 : Operational inefficiencies occur because

A: accounts both common and unique to many concurrent transactions need to be updated in real time

B: accounts common to many concurrent transactions need to be updated in real time

CLICK HERE TO ACCESS THE COMPLETE Test Bank C: accounts unique to many concurrent transactions need to be updated in real time

D: none of the above

Correct Answer: B

92 : Operational efficiencies can be improved by

A: updating accounts both common and unique to many concurrent transactions in real time

B: updating accounts both common and unique to many concurrent transactions in batch mode

C: updating accounts unique to many concurrent transactions in real time and updating common accounts in batch mode

D: none of the above

Correct Answer: C

93: The coding scheme most appropriate for a chart of accounts is

A: sequential code

B: block code

C: group code

D: mnemonic code

Correct Answer: B

94: A common use for sequential coding is

A: creating the chart of accounts

B: identifying inventory items

C: identifying documents

D: identifying fixed assets

Correct Answer: C

95: The most important advantage of sequential coding is that

A: missing or unrecorded documents can be identified

B: the code itself lacks informational content

C: items cannot be inserted

D: deletions affect the sequence

Correct Answer: A

96: When a firm wants its coding system to convey meaning without reference to any other document, it would choose

A: an alphabetic code

B: a mnemonic code

C: a group code

D: a block code

Correct Answer: B

97: The most important advantage of an alphabetic code is that

A: meaning is readily conveyed to users

B: sorting is simplified

C: the capacity to represent items is increased

D: missing documents can be identified

CLICK HERE TO ACCESS THE COMPLETE Test Bank Correct Answer: C

98: A cardinality of 1:M indicates a

A: many to one connection B: one to one connection C : one to many connection

D: any of the above

Correct Answer: C

99: What is a disadvantage of the virtual storage access method?

A: It cannot insert new records efficiently.

B: Its indexes do not provide an exact physical address for a specific record.

C: It is too costly for a small set of records.

D: It favors access speed over efficient processing.

Correct Answer: A

### **ESSAY**

100: Describe the key activities in the revenue, conversion, and expenditure cycles.

Correct Answer: Revenue cycle: Sales order processing involves preparation of sales orders, credit granting, shipment, and billing. Cash receipts collects cash and makes bank deposits.? Conversion cycle: Production system involves planning, scheduling, and control of the manufacturing process. Cost accounting system monitors the flow of cost information related to production.? Expenditure cycle: Purchases/accounts payable involves the acquisition of physical inventory. Cash disbursements authorizes payment and disburses funds. Payroll monitors labor usage and disburses paychecks to employees.

101: Categorize each of the following activities into the expenditure, conversion, or revenue cycles and identify the applicable subsystem.a. Preparing the weekly payroll for manufacturing personnel.b. Releasing raw materials for use in the manufacturing cycle.c. Recording the receipt of payment for goods sold.d. Recording the order placed by a customer.e. Ordering raw materials.f. Determining the amount of raw materials to order.

Correct Answer: a. Expenditure cycle-payroll subsystemb. Conversion cycle-production system subsystemc. Revenue cycle-cash receipts subsystemd. Revenue cycle-sales order processing subsysteme. Expenditure cycle-purchases subsystemf. Conversion cycle-production subsystem

102: What does an entity relationship diagram represent? Why do accountants need to understand them?

Correct Answer: Entity relationship diagrams represent the relationship between entities in a system. An entity is either 1) a resource (such as cash or inventory), 2) an event (such as a sale or a receipt of cash), or 3) an agent (such as a customer or vendor). ERDs represent the relationship between entities graphically. ERDs are used in the design of databases.

103: Time lag is one characteristic used to distinguish between batch and real-time systems. Explain. Give an example of when each is a realistic choice.

Correct Answer: Batch processing collects similar transactions into groups (batches) and processes them all at once. Hence, affected files are up to date immediately after the update, but can be expected to be out of date until the next run. Hence, there is a time lag between the event and its recording in the system. A payroll system is often handled with batch processing since it must be up to date on pay days, but does not need to be modified between pay dates.?Real-time systems process each transaction as it occurs, and files are always up to date—there is no time lag. This is preferred when there may be a need to query the system for the status of transactions. A sales order processing system would benefit from real-time processing. Hence, customer questions could be answered easily, without waiting for the next update (as would be required if the system was batch).

104: The revenue cycle has two subsystems. What are they and what occurs within each?

Correct Answer: The two subsystems of the revenue cycle are sales order processing and cash receipts. In the sales order processing subsystem, the sales order is processed, credit granted, goods are shipped, customer is billed, and related files updated (sales, accounts receivable, inventory, etc.). In the cash receipts subsystem, cash is collected and deposited in the bank and files updated (cash, accounts receivable, etc.).

105 : Resource use is one characteristic used to distinguish between batch and real-time systems. Explain.

Correct Answer: Batch processing typically requires the use of fewer resources including programmer time and effort, computer time, hardware, and user training.?Real-time systems require significantly more programming time, especially in the development of the user interface. They often require much more computer time, and more expensive hardware—even a dedicated processor.

106 : Give a brief description of each of the following documentation techniques: systems flowchart and program flowchart.

Correct Answer: System flowcharts portray the relationships between source data, transaction files, computer programs, master files, and output, including the form or type of media of each.?Program flowcharts represent the logic of a particular program. Each step is represented by a separate symbol, each of which represents one or more lines of computer instructions. The order of the steps is represented by the flow lines.?

107: Give an example of how cardinality relates to business policy.

Correct Answer: Cardinality reflects normal business rules as well as organizational policy. For instance, the 1:1 cardinality between the entities "Salesperson" and "Company Car" suggests that each salesperson in the organization is assigned one company car. If instead the organization's policy were to assign a single automobile to one or more salespersons who share it, this policy would be reflected by a 1:M relationship.

108 : For what purpose are ER diagrams used?

Correct Answer: An entity relationship (ER) diagram is a documentation technique used to represent the relationship between entities. One common use for ER diagrams is to model an organization's database.

109: With regard to an entity relationship diagram, what is an entity?

Correct Answer: Entities are physical resources (automobiles, cash, or inventory), events (ordering inventory, receiving cash, shipping goods) and agents (salesperson, customer, or vendor) about which the organization wishes to capture data.

110 : Is a DFD an effective documentation technique for identifying who or what performs a particular task? Explain.

Correct Answer: No. A DFD shows which tasks are being performed, but not who performs them. It depicts the logical system.

111 : Is a flowchart an effective documentation technique for identifying who or what performs a particular task? Explain.

Correct Answer: Yes. A flowchart depicts the physical system and illustrates who, what, and where a task is performed.

112: How may batch processing be used to improve operational efficiency?

Correct Answer: A single transaction may affect several different accounts. Some of these accounts, however, may not need to be updated in real time. In fact, the task of doing so takes time which, when multiplied by hundreds or thousands of transactions, can cause significant processing delays. Batch processing of non-critical accounts, however, improves operational efficiency by eliminating unnecessary activities at critical points in the process.

113: If an organization processes large numbers of transactions that use common data records, what type of system would work best (all else being equal)?

Correct Answer: Large-scale systems that process high volumes of transactions often use real-time data collection and batch updating. Master file records that are unique to a transaction, such as customer accounts and individual inventory records, can be updated in real time without causing operational delays. Common accounts should be updated in batch mode. Real-time processing is better suited to systems that process lower transaction volumes and those that do not share common records.

114: Why might an auditor use a program flowchart?

Correct Answer: When testing an application program, the auditor needs details about its internal logic provided by the program flowchart to design the audit tests.

115: How are computer system flowcharts and program flowcharts related?

Correct Answer: The system flowchart shows the relationship between two computer programs, the files that they use, and the outputs that they produce. However, this level of documentation does not provide the operational details that are sometimes needed. An auditor wishing to assess the correctness of a program's logic cannot do so from the system flowchart. A program flowchart provides this detail. Every program represented in a system flowchart should have a supporting program flowchart that describes its logic.

116: What are the key distinguishing features of legacy systems?

Correct Answer: Legacy systems tend to have the following distinguishing features: they are mainframe-based applications; they tend to be batch oriented; early legacy systems use flat files for data storage, however, hierarchical and network databases are often associated with later

legacy systems. These highly structured and inflexible storage systems promote a single-user environment that discourages information integration within business organizations.

117: What information is provided by a record layout diagram?

Correct Answer: Record layout diagrams are used to reveal the internal structure of the records that constitute a file or database table. The layout diagram usually shows the name, data type, and length of each attribute (or field) in the record.

118: Comment on the following statement: Legacy systems use flat file structures.

Correct Answer: A flat-file model is a single-view model that characterizes many legacy systems in which data files are structured, formatted, and arranged to suit the specific needs of the owner or primary user of the system. However, there are legacy systems that use early database technologies.

119: What factor influences the decision to employ real-time data collection with batch updating rather that purely real-time processing? Explain.

Correct Answer: Transaction volume is the key factor. Large scale systems that process high volumes of transactions often use real-time data collection and batch updating. Master file records that are unique to a transaction, such as customer accounts and individual inventory records, can be updated in real time without causing operational delays. Common accounts should be updated in batch mode. Real-time processing is better suited to systems that process lower transaction volumes and those that do not share common records.

120: Why is the master file backup procedure important?

Correct Answer: Master file backup is a standard procedure in transaction processing systems to maintain master file integrity in the event that any of the following problems should occur:1) An update program error corrupts the master files being updated.2) Undetected errors in the transaction data result in corrupted master file balances.3) A disaster such as a fire or flood physically destroys current master files.? If the current master file becomes corrupted or is destroyed, corporate IT professionals can retrieve the most current backed-up file from the archives and use it to reconstruct the current version of the master file.?

121 : What are the reasons companies use coding schemes in their accounting information systems?

Correct Answer: Companies use coding schemes in their AISs because codes concisely represent large amounts of complex information that would otherwise be unmanageable. They also provide a means of accountability over the completeness of the transactions processed and identify unique transactions and accounts within a file. In addition, coding supports the audit function by providing an effective audit trail.

122 : Compare and contrast the relative advantages and disadvantages of sequential, block, group, alphabetic, and mnemonic codes.

Correct Answer: Sequential codes are appropriate for items in either an ascending or descending sequence, such as the numbering of checks or source documents. An advantage is that during batch processing, any gap detected in the sequence is a signal that a transaction may be missing. A disadvantage is that the codes carry little, if any, information other than the sequence order. Another disadvantage is that sequential codes are difficult to manage when

items need to be added; the sequence needs either to be reordered or the items must be added to the end of the list.? Block codes provide some remedies to sequential codes by restricting each class to a pre-specified range. The first digit typically represents a class, whereas the following digits are sequential items which may be spaced in intervals in case of future additions. An example of block coding is a chart of accounts. A disadvantage of block coding is that the information content does not provide much meaning. For example, an account number only means something if the chart of accounts is known.? Group codes may be used to represent complex items or events involving two or more pieces of related data. The code is comprised of fields which possess specific meaning. The advantages of group codes over sequential and block codes are 1) they facilitate the representation of large amounts of diverse data, 2) they allow complex data structures to be represented in a hierarchical form that is logical and thus more easily remembered by humans, and 3) they permit detailed analysis and reporting both within an item class and across different classes of items. A disadvantage is that the codes may be overused to link classes which do not need to be linked, thus creating a more complex coding system than is necessary.? Alphabetic codes may be used sequentially or in block or group codes. An advantage is that a system which uses alphabetic codes can represent far more situations than a system with numeric codes, given a specific field size. Some disadvantages are that sequentially assigned codes mostly have little meaning. Also, humans typically find alphabetic codes more difficult to sort than numeric data.?Lastly. mnemonic codes are alphabetic characters in the form of acronyms, abbreviations or other combinations that convey meaning. The meaning aspect is its advantage. A disadvantage of mnemonic codes is that they are limited in their ability to represents items within a class, i.e., names of all of American Express's customers.?

123 : APPENDIX QUESTIONExplain how a hashing structure works and why it is quicker than using an index. Give an example. If it so much faster, why isnt it used exclusively?

Correct Answer: A hashing structure typically works by taking a key value and using it to divide a prime number. The result is a unique number almost all of the time if enough decimal places are used. The resulting numbers are used to find the unique location of the record. Calculating a record's address is faster than searching for it through an index, therefore the principal advantage of hashing is access speed. It is not used exclusively because it does not use the storage disk efficiently. Some disk locations will never be selected because they do not correspond to legitimate key values. Also, different record keys may sometimes translate to the same address and data collision could occur. A way around this exists using pointers, but the additional pointers slow down the system.

124 : APPENDIX QUESTIONExplain the following three types of pointers: physical address pointer, relative address pointer, and logical key pointer.

Correct Answer: A physical address pointer contains the actual disk storage location (cylinder, surface, and record number) needed by the disk controller. This approach allows the system to access the record directly without obtaining further information.? A relative address pointer contains the relative position of a record in the file. This address (i.e., the 200th record on the file) must be further manipulated to convert it to the actual physical address. The conversion software determines this by using the physical address of the beginning of the file, the length of each record in the file, and the relative address of the record being sought.? A logical key pointer contains the primary key of the related record. This key value is then converted into the record's physical address by a hashing algorithm.