DATA INPUT METHODS

OBJECTIVE QUESTIONS

There are 4 alternative answers to each question. One of them is correct. Pick the correct answer. Do not guess. A key is given at the end of the module for you to verify your answer

LEARNING UNIT 1

7.1.1 A data dictionary has consolidated list of data contained in

- (i) dataflows (ii) data stores
- (iii) data outputs (iv) processes
- (a) (i) and (iii)
- (b) (i) and (ii)
- (c) (ii) and (iv)
- (d) (i) and (iv) $\left(i \right)$

7.1.2 A data dictionary is useful as

- (i) it is a documentation aid
- (ii) it assists in designing input forms
- (iii) it contains al data in an application including temporary data used in processes
- (iv) it is a good idea in system design
- (a) (i) and (ii)
- (b) (i) and (iv)
- (c) (i),(ii) and (iii)
- (d) (i) and (iv)

7.1.3 By metadata we mean

- (a) very large data
- (b) data about data
- (c) data dictionary
- (d) meaningful data

7.1.4 A data dictionary is usually developed

- (a) At requirements specification phase
- (b) During feasibility analysis
- (c) When DFD is developed
- (d) When a datadase is designed

7.1.5 A data dictionary has information about

- (a) every data element in a data flow
- (b) only key data element in a data flow
- (c) only important data elements in a data flow
- (d) only numeric data elements in a data flow

7.1.6 A data element in a data dictionary may have

- (a) only integer value
- (b) no value
- (c) only real value
- (d) only decimal value

7.1.7 A data element in a data flow

- (i) may be an integer number
- (ii) may be a real number
- (iii) may be binary
- (iv) may be imaginary
- (a) (i),(ii),(iv)
- (b) (iii),(iv),(ii)
- (c) (i),(ii),(iii)
- (d) (i) and (ii)

LEARNING UNIT 2

7.2.1 It is necessary to carefully design data input to a computer based system because

- (a) it is good to be careful
- (b) the volume of data handled is large
- (c) the volume of data handled is small
- (d) data entry operators are not good

7.2.2 Errors occur more often when

- (a) data is entered by users
- (b) data is entered by operators
- (c) when data is handwritten by users and entered by an operator
- (d) the key board design is bad

7.2.3 Good system design prevents data entry errors by

- (i) Designing good forms with plenty of space to write in block capitals
- (ii) By giving clear instructions to a user on how to fill a form
- (iii) Reducing keystrokes of an operator
- (v)Designing good keyboard

(a) i, ii, iii	(b) i, ii, iv
(c) i, ii	(d) iii and iv

7.2.4 In on-line data entry it is possible to

- (a) Give immediate feedback if incorrect data is entered
- (b) Eliminate all errors
- (c) Save data entry operators time
- (d) Eliminate forms

7.2.5 The main problems encountered in off-line data entry are:

- (i) Data are entered by operators
- (ii) Data entered by hand in forms batched and forms may be missed or misread
- (iii) Errors are detected after a lapse of time
- (iv) Data are entered by users

(a) i and ii	(b) i and iii
(c) ii and iii	(d) iii and iv

7.2.6 In interactive data input a menu is used to

- (a) enter new data
- (b) add/delete data
- (c) select one out of many alternatives often by a mouse click
- (d) detect errors in data input

7.2.7 In interactive data input a template is normally used to

- (a) enter new data
- (b) add/delete data
- (c) select one out of many alternatives often by a mouse click
- (d) detect errors in data input

7.2.8 In interactive data input terminal commands are normally used to

- (a) enter new data
- (b) add/delete data
- (c) select one out of many alternatives often by a mouse click(d) detect errors in data input

LEARNING UNIT 3

7.3.1 Data inputs which required coding are

- (a) fields which specify prices
- (b) key fields
- (c) name fields such as product name
- (e) fields which are of variable length

7.3.2 Key fields are normally coded

- (i) as they provide a unique identification
- (ii) as they are used for retrieving records
- (iii) as they facilitate cross referencing between applications which use the key
- (iv) as it is useful

(a) i and ii	(b) i and iv
(c) ii and iii	(d) i and iii

7.3.3 A code is useful to represent a key field because

- (a) it is a concise representation of the field
- (b) it is usually done by all
- (c) it is generally a good idea
- (e) it is needed in database design

7.3.4 By the term "concise code" we understand that the code

- (a) conveys information on item being coded
- (b) is of small length
- (c) can add new item easily
- (e) includes all relevant characteristics of item being coded

7.3.5 By the term "expandable code" we understand that the code

- (a) conveys information on item being coded
- (b) is of small length
- (c) can add new item easily
- (e) includes all relevant characteristics of item being coded

7.3.6 By the term "meaningful code" we understand that the code

- (a) conveys information on item being coded
- (b) is of small length
- (c) can add new item easily
- (e) includes all relevant characteristics of item being code

7.3.7 By the term "comprehensive code" we understand that the code

- (a) conveys information on item being coded
- (b) is of small length
- (c) can add new item easily
- (d) includes all relevant characteristics of item being coded

7.3.8 A concise code is necessarily

- (a) precise
- (b) meaningful
- (c) comprehensive
- (d) difficult

7.3.9 Serial numbers used as codes are

- (i) concise
- (ii) meaningful
- (iii) expandable
- (iv) comprehensive
 - (a) i and ii (b) ii and iii (c) ii and iv (d) i and iii

7.3.10 Block codes are

- (i) concise
- (ii) meaningful
- (iii) expandable
- (iv) comprehensive
 - (a) i and ii (b) ii and iii

(c) iii and iv	(d) i and iii
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7.3.11 Group classification codes are

- (i) concise
- (ii) meaningful
- (iii) expandable
- (iv) comprehensive
 (a) i and ii
 (b) i, ii and iii
 (c) ii, iii and iv
 (d) i, ii and iv

7.3.12 Significant codes are

- (i) concise
- (ii) meaningful
- (iii) expandable
- (iv) comprehensive
 - (a) i and ii(b) i, ii and iii(c) ii, iii and iv(d) i, ii and iv

7.3.13 In significant codes some or all parts of the code

- (a) are meaningful
- (b) are usable
- (c) are significant
- (d) represent values

7.3.14 Errors in codes are detected by

- (a) proper design of code
- (b) introducing redundant digits/characters designed to detect errors
- (c) making the code concise
- (d) making the code precise

7.3.15 Design of error detecting codes requires good

- (a) knowledge of mathematics
- (b) statistical mechanics
- (c) statistics of errors normally committed during data entry
- (d) Boolean algebra

7.3.16 A modulus-11 check digit is used to detect error in

- (a) alphanumeric codes
- (b) numeric codes
- (c) hexadecimal codes
- (d) serial number code

7.3.17 A modulus-11 check digit will detect

- (i) single transcription errors
- (ii) single transposition errors

(iii) multiple digit transcription errors

- (iv) and correct a single error
 - (a) i and iii(b) i and iv(c) i and ii(d) iii and iv

7.3.18 A modulus-17 check will detect single transcription errors in

- (a) alphanumeric codes
- (b) hexadecimal codes
- (c) decimal numerical codes
- (d) serial number codes

7.3.19 For modulus-11 check digit to detect a single transposition errors the

- (a) weights should all be distinct
- (b) weights may all be equal and > 0
- (c) weights should be less than 8
- (d) weights should all be > 0 and distinct

7.3.20 For modulus-11 check digit to detect a single transcription errors

- (a) weights should all be distinct
- (b) weights may all be equal and > 0
- (c) weights should be less than 8
- (d) weights should all be > 0 and distinct

7.3.21 Modulus-11 check digit for the code 45672 is

(a) 0	(b) 1
(c) 2	(d) 3

7.3.22 Modulus-11 check digit for the code 85672 is

(a) 0	(b) 1
(c) X	(d) 3

7.3.23 For modulus-11 check digit to detect single transposition or single transcription error the number of digits in the codes should not exceed

 (a) 9
 (b) 10

(c) 11 (d) 99

7.3.24 Modulus-17 check character for the hexadecimal code AB4567 is

(a) F	(b) D
(c) 1	(d) 0

7.3.25 Sequence numbering of records is used to

- (i) Identify each record uniquely
- (ii) Track a missing record in a batch of records

- (iii) Count number of records
- (iv) Sort the records

(a) i, ii	(b) i, ii, iii
(c) i, ii, iii, iv	(d) i and iv

7.3.26 A batch control record uses

- (i) Batch totals of selected fields
- (ii) A simple count of number of records in a batch
- (iii) Modulus-11 check digit of each key field
- (iv) Totals of selected fields of record totalled for the batch
 - (a) i and ii (b) i, ii, iv
 - (c) i, ii, iii, iv (d) iii and iv

7.3.27 A record total uses

- (a) batch totals of selected fields
- (b) count of numbers of records
- (c) modulus-11 check digit sum of all fields
- (d) total of selected fields of a record

7.3.28 If a field is known to represent an angle of a triangle, radix used to check should be

(a)	90	(b) 60
(c)	180	(d) 360

7.3.29 If a field is known to represent days of a month, radix used to check should be

(a) 30	(b) 31
(c) 28	(d) 29

7.3.30 Radix check for a field representing year is

- (a) possible
- (b) not possible
- (c) not relevant
- (d) may be tried

7.3.31 An appropriate range check for marks in an examination paper whose maximum marks 100 is

- (a) 100(b) 0 to 100
- (a) 00 to 100
- (c) 99 to +99

(d) 99

7.3.32 An appropriate range check for month field in a date is

- (a) 12
- (b) -12 to 12
- (c) 1 to 12
- (d) 0 to 12
- 7.3.33 An appropriate range check of age of a tenth standard student in a high school is
 - (a) 5 to 15
 - (b) 10 to 25
 - (c) 8 to 20
 - (d) 3 to 18
- 7.3.34 Reasonableness checks for monthly mess bill of a student if daily rate is Rs. 40 is
 - (a) 1200
 - (b) 12000
 - (c) 120
 - (d) 2400

7.3.35 Batch control totals will detect

- (i) incorrect data entry of a field
- (ii) missing record
- (iii) data records out of order
- (iv) inconsistent data

(a) i and ii	(b) i, ii and iii
(c) ii, iii and iv	(d) iii and iv

7.3.36 If records are out-of-order then error may be detected by

- (a) batch control totals
- (b) radix check
- (c) sequence number check
- (d) range check

7.3.37 In payroll record a reasonable inter-field relationship check is to relate salary field with

- (a) age field
- (b) department field
- (c) designation field
- (d) increment field

KEY TO OBJECTIVE QUESTIONS

7.1.1	b	7.1.2	с	7.1.3	b	7.1.4	c	7.1.5	a	7.1.6	b
7.1.7	c	7.2.1	b	7.2.2	c	7.2.3	a	7.2.4	a	7.2.5	c
7.2.6	c	7.2.7	a	7.2.8	b	7.3.1	b	7.3.2	d	7.3.3	a
7.3.4	b	7.3.5	c	7.3.6	a	7.3.7	d	7.3.8	a	7.3.9	d
7.3.10	b	7.3.11	c	7.3.12	c	7.3.13	d	7.3.14	b	7.3.15	c
7.3.16	b	7.3.17	c	7.3.18	b	7.3.19	d	7.3.20	b	7.3.21	b
7.3.22	c	7.3.23	b	7.3.24	b	7.3.25	с	7.3.26	b	7.3.27	d
7.3.28	c	7.3.29	b	7.3.30	b	7.3.31	b	7.3.32	c	7.3.33	c
7.3.34	d	7.3.35	a	7.3.36	c	7.3.37	c				