

- 7.1 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)
- 7.2 A data dictionary is useful as**
- (i) it is a documentation aid
 - (ii) it assists in designing input forms
 - (iii) it contains all 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)
- 7.3 By metadata we mean**
- a. very large data
 - b. data about data
 - c. data dictionary
 - d. meaningful data
- 7.4 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
- 7.5 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
- 7.6 A data element in a data dictionary may have**
- a. only integer value
 - b. no value
 - c. only real value
 - d. only decimal value

7.7 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)

7.8 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

7.9 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

7.10 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
- (iv) Designing good keyboard

- a. i, ii, iii
- b. i, ii, iv
- c. i, ii
- d. iii and iv

7.11 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

7.12 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
- 7.13 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
- 7.14 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
- 7.15 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
- 7.16 Data inputs which required coding are**
- a. fields which specify prices
 - b. key fields
 - c. name fields such as product name
 - d. fields which are of variable length
- 7.17 Key fields are normally coded**
- a. i and ii
 - b. i and iv
 - c. ii and iii
 - d. i and iii
- 7.18 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
 - d. it is needed in database design
- 7.19 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
 - d. includes all relevant characteristics of item being coded
- 7.20 By the term “expandable code” we understand that the code**
- a. conveys information on item being coded
 - b. is of small length
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- c. can add new item easily
d. includes all relevant characteristics of item being coded
- 7.21 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
d. includes all relevant characteristics of item being code
- 7.22 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
- 7.23 A concise code is necessarily**
- a. Precise
b. Meaningful
c. Comprehensive
d. Difficult
- 7.24 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
- 7.25 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
- 7.26 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

7.27 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

7.28 In significant codes some or all parts of the code

- a. are meaningful
- b. are usable
- c. are significant
- d. represent values

7.29 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

7.30 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

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

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

7.32 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

- 7.33 A modulus-17 check will detect single transcription errors in**
- alphanumeric codes
 - hexadecimal codes
 - decimal numerical codes
 - serial number codes
- 7.34 For modulus-11 check digit to detect a single transposition errors**
- weights should all be distinct
 - weights may all be equal and > 0
 - weights should be less than 8
 - weights should all be > 0 and distinct
- 7.35 For modulus-11 check digit to detect a single transcription errors**
- weights should all be distinct
 - weights may all be equal and > 0
 - weights should be less than 8
 - weights should all be > 0 and distinct
- 7.36 Modulus-11 check digit for the code 45672 is**
- 0
 - 1
 - 2
 - 3
- 7.37 Modulus-11 check digit for the code 85672 is**
- 0
 - 1
 - X
 - 3
- 7.38 For modulus-11 check digit to detect single transposition or single transcription error the number of digits in the codes should not exceed**
- 9
 - 10
 - 11
 - 99
- 7.39 Modulus-17 check character for the hexadecimal code AB4567 is**
- F
 - D
 - 1
 - 0
- 7.40 Sequence numbering of records is used to**
- Identify each record uniquely
 - Track a missing record in a batch of records
 - Count number of records
 - Sort the records
- i, ii
 - i, ii, iii
 - i, ii, iii, iv
 - i and iv

7.41 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

7.42 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

7.43 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

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

- a. 30
- b. 31
- c. 28
- d. 29

7.45 Radix check for a field representing year is

- a. Possible
- b. not possible
- c. not relevant
- d. may be tried

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

- a. 100
- b. 0 to 100
- c. - 99 to +99
- d. 99

7.47 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

7.48 An appropriate range check of age of a tenth standard student in a high school

- a. 5 to 15
- b. 10 to 25

- c. 8 to 20
- d. 3 to 18

7.49 Reasonableness checks for monthly mess bill of a student if daily rate is Rs. 40 is

- a. 1200
- b. 12000
- c. 120
- d. 2400

7.50 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

7.51 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

7.52 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	b	7.2	c	7.3	b	7.4	c	7.5	a	7.6	b		
7.7	c	7.8	b	7.9	c	7.10	a	7.11	a	7.12	c	7.13	
c	7.14	a		7.15	b	7.16		b	7.17	d	7.18	a	
7.19	b	7.20	c			7.21	a	7.22	d	7.23	a	7.24	
d	7.25	b	7.26	c		7.27	c	7.28	d	7.29	b	7.30	
c	7.31	b	7.32	c		7.33	b	7.34	d	7.35	b	7.36	b
7.37	c	7.38	b	7.39	b	7.40	c	7.41	b	7.42		d	
7.43	c	7.44	b	7.45	b	7.46	b	7.47	c	7.48	c	7.49	d
	7.50	a	7.51	c	7.52	c							