

System Analysis and Design

1. Information is

- A. Data
- B. Processed Data
- C. Manipulated input
- D. Computer output

View answer

Correct answer: (B)

Processed Data

2. Statutory information is needed for

- A. Day to day operations
- B. Meet government requirements
- C. Long range planning
- D. Short range planning

View answer

Correct answer: (B)

Meet government requirements

3. In a hospital information system the following type of information is operational

- A. Opening a new children' ward
- B. Data on births and deaths
- C. Preparing patients' bill
- D. Buying an expensive diagnostic system such as CAT scan

View answer

Correct answer: (C)

Preparing patients' bill

4. Strategic information is

- A. Haphazard
- B. Well organized
- C. Unstructured
- D. Partly structured

View answer

Correct answer: (C)

Unstructured

5. Match and find best pairing for a Materials Management System

- i. Developing vendor performance
- ii. Developing vendors for critical
- iii. List of items rejected from a vendor
- iv. Strategic information measures
- v. Tactical information items
- vi. Operational information

- A. (i) and (v)
- B. (ii) and (v)
- C. (iii) and (iv)
- D. (ii) and (vi)

View answer

Correct answer: (A)

(i) and (v)

6. Match and find best pairing for a Marketing Management System

- i. Customer preferences surveys
- ii. Search for new markets
- iii. Performance of sales outlets
- iv. Strategic information
- v. Tactical information
- vi. Operational information

- A. (iii) and (iv)
- B. (i) and (vi)
- C. (i) and (v)
- D. (iii) and (v)

View answer

Correct answer: (C)

(i) and (v)

7. Organizations have hierarchical structures because

- A. it is convenient to do so
- B. it is done by every organization
- C. specific responsibilities can be assigned for each level
- D. it provides opportunities for promotions

View answer

Correct answer: (C)

specific responsibilities can be assigned for each level

8. Match quality of information and how it is ensured using the following list

QUALITY	HOW ENSURED
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- i. Accurate
- ii. Complete
- iii. Timely
- iv. Include all data
- v. Use correct input and processing rules
- vi. Include all data up to present time

- 1. (i) and (v)
- 2. (ii) and (vi)
- 3. (iii) and (vi)
- 4. (i) and (iv)

View answer

Correct answer: (A)

(i) and (v)

9. The quality of information which does not hide any unpleasant information is known as

- A. Complete
- B. Trustworthy
- C. Relevant
- D. None of the above

View answer

Correct answer: (B)

Trustworthy

10. Data rejected by edit program are

- A. corrected and re - entered
- B. removed from processing
- C. collected for later use
- D. ignored during processing

View answer

Correct answer: (A)

corrected and re - entered

11. Data mining is used to aid in

- A. operational management
- B. analyzing past decision made by managers
- C. detecting patterns in operational data
- D. retrieving archival data

View answer

Correct answer: (C)

detecting patterns in operational data

12. Decision support systems are essential for

- A. day-to-day operation of an organization.
- B. providing statutory information.
- C. top level strategic decision making.
- D. ensuring that organizations are profitable.

View answer

Correct answer: (C)

top level strategic decision making.

13. Data by itself is not useful unless

- A. It is massive
- B. It is processed to obtain information
- C. It is collected from diverse sources
- D. It is properly stated

View answer

Correct answer: (B)

It is processed to obtain information

14. Operational information is required by

- A. Middle managers
- B. Line managers
- C. Top managers
- D. All workers

View answer

Correct answer: (B)

Line managers

15. In a hospital information system the following type of information is statutory

- A. Opening a new children' ward
- B. Data on births and deaths
- C. Preparing patients' bill
- D. Buying an expensive diagnostic system such as CAT scan

View answer

Correct answer: (B)

Data on births and deaths

16. Match and find best pairing for a Production Management System

- i. Performance appraisal of machines
 - ii. Introducing new production
 - iii. Preventive maintenance schedules
 - iv. Strategic information to decide on replacement
 - v. Tactical information technology
 - vi. Operational information for machines
-
- A. (i) and (vi)
 - B. (ii) and (v)
 - C. (i) and (v)
 - D. (iii) and (iv)

View answer

Correct answer: (C)

(i) and (v)

17. Match and find best pairing for a Research and Development Management System

- i. Technical collaboration decision
 - ii. Budgeted expenses Vs actuals
 - iii. Proportion of budget to be
 - iv. Strategic information
 - v. Tactical information
 - vi. Operational information allocated to various projects
-
- A. (i) and (iv)
 - B. (ii) and (v)
 - C. (iii) and (vi)
 - D. (iii) and (iv)

View answer

Correct answer: (A)

(i) and (iv)

18. Match quality of information and how it is ensured using the following list
QUALITY
HOW ENSURED

- A. Accurate
- B. Complete
- C. Timely
- D. Include all data
- E. Use correct input and processing rules
- F. Include all data up to present time

- A. (ii) and (v)
- B. (ii) and (vi)
- C. (ii) and (iv)
- D. (iii) and (iv)

View answer

Correct answer: (C)

(ii) and (iv)

19. The primary storage medium for storing archival data is

- A. floppy disk
- B. magnetic disk
- C. magnetic tape
- D. CD- ROM

View answer

Correct answer: (C)

magnetic tape

20. A management information system is one which

- A. is required by all managers of an organization
- B. processes data to yield information of value in tactical management
- C. provides operational information
- D. allows better management of organizations

View answer

Correct answer: (B)

processes data to yield information of value in tactical management

21. For taking decisions data must be

- A. Very accurate

- B. Massive
- C. Processed correctly
- D. Collected from diverse sources

View answer

Correct answer: (C)

Processed correctly

22. In motor car manufacturing the following type of information is strategic

- A. Decision on introducing a new model
- B. Scheduling production
- C. Assessing competitor car
- D. Computing sales tax collected

View answer

Correct answer: (A)

Decision on introducing a new model

23. A computer based information system is needed because

- i. The size of organization have become large and data is massive
 - ii. Timely decisions are to be taken based on available data
 - iii. Computers are available
 - iv. Difficult to get clerks to process data
-
- A. (ii) and (iii)
 - B. (i) and (ii)
 - C. (i) and (iv)
 - D. (iii) and (iv)

View answer

Correct answer: (B)

(i) and (ii)

24. Match and find best pairing for a Human Resource Management System

- i. Policies on giving bonus
 - ii. Absentee reduction
 - iii. Skills inventory
 - iv. Strategic information
 - v. Tactical information
 - vi. Operational Information
-
- A. (i) and (v)

- B. (i) and (iv)
- C. (ii) and (iv)
- D. (iii) and (v)

View answer

Correct answer: (B)
(i) and (iv)

25. Match and find best pairing for a Research and Development Management System

- i. Technical collaboration decision
- ii. Budgeted expenses Vs actuals
- iii. Proportion of budget to be
- iv. Strategic information
- v. Tactical information
- vi. Operational information allocated to various projects

- A. (i) and (v)
- B. (iii) and (v)
- C. (ii) and (v)
- D. (i) and (vi)

View answer

Correct answer: (B)
(iii) and (v)

26. Match quality of information and how it is ensured using the following list QUALITY HOW ENSURED

- i. Up-to-date
- ii. Brief
- iii. Significance
- iv. Include all data to present time
- v. Give at right time
- vi. Use attractive format and understandable graphical charts

- A. (i) and (v)
- B. (ii) and (vi)
- C. (iii) and (vi)
- D. (i) and (vi)

View answer

Correct answer: (C)
(iii) and (vi)

27. Master files are normally stored in

- A. a hard disk
- B. a tape
- C. CD – ROM
- D. computer's main memory

View answer

Correct answer: (A)

a hard disk

28. Data mining requires

- A. large quantities of operational data stored over a period of time
- B. lots of tactical data
- C. several tape drives to store archival data
- D. large mainframe computers

View answer

Correct answer: (A)

large quantities of operational data stored over a period of time

29. Strategic information is needed for

- A. Day to day operations
- B. Meet government requirements
- C. Long range planning
- D. Short range planning

View answer

Correct answer: (C)

Long range planning

30. In motor car manufacturing the following type of information is tactical

- A. Decision on introducing a new model
- B. Scheduling production
- C. Assessing competitor car
- D. Computing sales tax collected

View answer

Correct answer: (C)

Assessing competitor car

31. Match and find best pairing for a Production Management System

- i. Performance appraisal of machines replacement
 - ii. Introducing new production
 - iii. Preventive maintenance schedules
 - iv. Strategic information to decide on
 - v. Tactical information technology
 - vi. Operational information for
- A. (iii) and (vi)
 - B. (i) and (iv)
 - C. (ii) and (v)
 - D. None of the above

View answer

Correct answer: (A)

(iii) and (vi)

32. Organizations are divided into departments because

- A. it is convenient to do so
- B. each department can be assigned a specific functional responsibility
- C. it provides opportunities for promotion
- D. it is done by every organization

View answer

Correct answer: (B)

each department can be assigned a specific functional responsibility

33. The quality of information which is based on understanding user needs

- A. Complete
- B. Trustworthy
- C. Relevant
- D. None of the above

View answer

Correct answer: (C)

Relevant

34. Data mining can not be done if

- A. operational data has not been archived
- B. earlier management decisions are not available
- C. the organization is large
- D. all processing had been only batch processing

View answer

Correct answer: (A)

operational data has not been archived

35. Strategic information is required by

- A. Middle managers
- B. Line managers
- C. Top managers
- D. All workers

View answer

Correct answer: (C)

Top managers

36. In motor car manufacturing the following type of information is operational

- A. Decision on introducing a new model
- B. Scheduling production
- C. Assessing competitor car
- D. Computing sales tax collected

View answer

Correct answer: (B)

Scheduling production

37. Volume of tactical information is

- A. Condensed
- B. Detailed
- C. Summarized
- D. relevant

View answer

Correct answer: (C)

Summarized

38. Match and find best pairing for a Materials Management System

- i. Developing vendor performance
- ii. Developing vendors for critical
- iii. List of items rejected from a vendor
- iv. Strategic information measures
- v. Tactical information items
- vi. Operational information

- A. (i) and (vi)
- B. (iii) and (vi)
- C. (ii) and (vi)
- D. (iii) and (iv)

View answer

Correct answer: (B)
(iii) and (vi)

39. Match quality of information and how it is ensured using the following list QUALITY HOW ENSURED

- i. Brief
- ii. Relevant
- iii. Trustworthy
- iv. Unpleasant information not hidden
- v. Summarize relevant information
- vi. Understands user needs

- A. (i) and (iv)
- B. (ii) and (v)
- C. (iii) and (vi)
- D. (i) and (v)

View answer

Correct answer: (D)
(i) and (v)

40. Decision support systems are used for

- A. management decision making
- B. providing tactical information to management
- C. providing strategic information to management
- D. better operation of an organization

View answer

Correct answer: (C)
providing strategic information to management

41. Tactical information is needed for

- A. Day to day operations
- B. Meet government requirements
- C. Long range planning
- D. Short range planning

View answer

Correct answer: (D)

Short range planning

42. In motor car manufacturing the following type of information is statutory

- A. Decision on introducing a new model
- B. Scheduling production
- C. Assessing competitor car
- D. Computing sales tax collected

View answer

Correct answer: (D)

Computing sales tax collected

43. Volume of operational information is

- A. Condensed
- B. Detailed
- C. Summarized
- D. Irrelevant

View answer

Correct answer: (B)

Detailed

44. Match and find best pairing for a Finance Management System

- i. Tax deduction at source report
- ii. Impact of taxation on pricing
- iii. Tax planning
- iv. Strategic information
- v. Tactical information
- vi. Operational information

- A. (i) and (v)
- B. (iii) and (vi)
- C. (ii) and (v)
- D. (ii) and (iv)

View answer

Correct answer: (C)

(ii) and (v)

45. Which of the following functions is the most unlikely in an insurance company.

- A. Training
- B. giving loans
- C. bill of material
- D. accounting

View answer

Correct answer: (C)

bill of material

46. Match quality of information and how it is ensured using the following list
QUALITY
HOW ENSURED

- i. Brief
- ii. Relevant
- iii. Trustworthy
- iv. Unpleasant information not hidden
- v. Summarize relevant information
- vi. Understands user needs

- A. (ii) and (vi)
- B. (i) and (iv)
- C. (iii) and (v)
- D. (ii) and (iv)

View answer

Correct answer: (A)

(ii) and (vi)

47. Online transaction processing is used because

- A. it is efficient
- B. disk is used for storing files
- C. it can handle random queries.
- D. Transactions occur in batches

View answer

Correct answer: (C)

it can handle random queries.

48. Decision support systems are used by

- A. line managers.
- B. top-level managers.
- C. middle level managers.
- D. system users

View answer

Correct answer: (B)
top-level managers.

49. Tactical information is required by

- A. Middle managers
- B. Line managers
- C. Top managers
- D. All workers

View answer

Correct answer: (A)
Middle managers

50. In a hospital information system the following type of information is strategic

- A. Opening a new children's ward
- B. Data on births and deaths
- C. Preparing patients' bill
- D. Buying an expensive diagnostic system such as CAT scan

View answer

Correct answer: (D)
Buying an expensive diagnostic system such as CAT scan

51. In a hospital information system the following type of information is tactical

- A. Opening a new children's ward
- B. Data on births and deaths
- C. Preparing patients' bill
- D. Buying an expensive diagnostic system such as CAT scan

View answer

Correct answer: (A)
Opening a new children's ward

52. Tactical information is

- A. Haphazard
- B. Well organized
- C. Unstructured
- D. Partly structured

View answer

Correct answer: (D)

Partly structured

53. Match and find best pairing for a Finance Management System

- i. Budget status to all managers
- ii. Method of financing
- iii. Variance between budget and
- iv. Strategic information
- v. Tactical information
- vi. Operational information expenses

- A. (i) and (v)
- B. (iii) and (vi)
- C. (ii) and (v)
- D. (ii) and (iv)

View answer

Correct answer: (D)

(ii) and (iv)

54. Which of the following functions is most unlikely in a university

- A. admissions
- B. accounting
- C. conducting examination
- D. marketing

View answer

Correct answer: (D)

marketing

55. Every record stored in a Master file has a key field because

- A. it is the most important field
- B. it acts as a unique identification of record
- C. it is the key to the database
- D. it is a very concise field

View answer

Correct answer: (B)

it acts as a unique identification of record

56. On-line transaction processing is used when

- i. it is required to answer random queries
- ii. it is required to ensure correct processing
- iii. all files are available on-line
- iv. all files are stored using hard disk

- A. i, ii
- B. i, iii
- C. ii, iii, iv
- D. i, ii, iii

View answer

Correct answer: (B)

i, iii

57. Operational information is needed for

- A. Day to day operations
- B. Meet government requirements
- C. Long range planning
- D. Short range planning

View answer

Correct answer: (A)

Day to day operations

58. Operational information is

- A. Haphazard
- B. Well organized
- C. Unstructured
- D. Partly structured

View answer

Correct answer: (B)

Well organized

59. Match and find best pairing for a Marketing Management System

- i. Customer preferences surveys
- ii. Search for new markets
- iii. Performance of sales outlets
- iv. Strategic information
- v. Tactical information
- vi. Operational information

- A. (i) and (iv)
- B. (ii) and (v)
- C. (iii) and (vi)
- D. (ii) and (v)

View answer

Correct answer: (C)
(iii) and (vi)

60. Which of the following functions is most unlikely in a purchase section of an organization.

- A. Production planning
- B. order processing
- C. vendor selection
- D. training

View answer

Correct answer: (A)
Production planning

61. Which is the most unlikely function of a marketing division of an organization.

- A. advertising
- B. sales analysis
- C. order processing
- D. customer preference analysis

View answer

Correct answer: (C)
order processing

62. Master file is a file containing

- A. all master records
- B. all records relevant to the application
- C. a collection of data items
- D. historical data of relevance to the organization

View answer

Correct answer: (B)
all records relevant to the application

63. Off-line data entry is preferable when

- i. data should be entered without error
- ii. the volume of data to be entered is large
- iii. the volume of data to be entered is small
- iv. data is to be processed periodically

- A. (i), (ii)
- B. (ii), (iii)
- C. (ii), (iv)
- D. (iii), (iv)

View answer

Correct answer: (C)

(ii), (iv)

64. Which is the most unlikely function of a finance section of a company.

- A. Billing
- B. costing
- C. budgeting
- D. labor deployment

View answer

Correct answer: (D)

labor deployment

65. Edit program is required to

- A. authenticate data entered by an operator
- B. format correctly input data
- C. detect errors in input data
- D. expedite retrieving input data

View answer

Correct answer: (C)

detect errors in input data

66. Batch processing is preferred over on-line transaction processing when

- i. processing efficiency is important
- ii. the volume of data to be processed is large
- iii. only periodic processing is needed
- iv. a large number of queries are to be processed

- A. (i), (ii)
- B. (i), (iii)

- C. (ii), (iii)
- D. (i), (ii), (iii)

View answer

Correct answer: (D)

(i), (ii), (iii)

67. Batch processing is used when

- i. response time should be short
- ii. data processing is to be carried out at periodic intervals
- iii. transactions are in batches
- iv. transactions do not occur periodically

- A. (i), (ii)
- B. (i), (iii), (iv)
- C. (ii), (iii)
- D. (i), (ii), (iii)

View answer

Correct answer: (C)

(ii), (iii)

68. Which of the following functions is most unlikely in a purchase section of an organization

- A. Production planning
- B. order processing
- C. vendor selection
- D. training

View answer

Correct answer: (A)

Production planning

69. The major goal of requirement determination phase of information system development is

- A. determine whether information is needed by an organization
- B. determine what information is needed by an organization
- C. determine how information needed by an organization can be provided
- D. determine when information is to be given

View answer

Correct answer: (B)
determine what information is needed by an organization

70. Requirement specification is carried out

- A. after requirements are determined
- B. before requirements are determined
- C. simultaneously with requirements determination
- D. independent of requirements determination

View answer

Correct answer: (A)

71. Feasibility study is carried out by

- A. managers of the organization
- B. system analyst in consultation with managers of the organization
- C. users of the proposed system
- D. systems designers in consultation with the prospective users of the system

View answer

Correct answer: (B)

system analyst in consultation with managers of the organization

72. Hardware study is required

- A. to find out cost of computer system needed
- B. to determine the type of computer system and software tools needed to meet the final system specification
- C. to make sure that the system does not become obsolete
- D. to find how to implement the system

View answer

Correct answer: (B)

to determine the type of computer system and software tools needed to meet the final system specification

73. Systems are modified whenever

- A. user's requirements change
- B. new computers are introduced in the market
- C. new software tools become available in the market
- D. other similar organization modify these system

View answer

Correct answer: (A)
user's requirements change

74. System analysts have to interact with

- i. managers of organizations
- ii. users in the organization
- iii. programming team
- iv. data entry operator

- A. iii and iv
- B. i, ii and iii
- C. ii, iii and iv
- D. ii and iii

View answer

Correct answer: (B)
i, ii and iii

75. Systems analyst should use software tools in their work as

- A. all analysts use them
- B. they assist in systematic design of systems
- C. they are inexpensive
- D. they are easily available

View answer

Correct answer: (B)
they assist in systematic design of systems

76. Information requirements of an organization can be determined by

- A. interviewing managers and users and arriving at the requirements based on consensus
- B. finding out what similar organizations do
- C. telling organization what they need based on your experience
- D. sending a questionnaire to all employees of the organization

View answer

77. It is necessary to carry out a feasibility study as

- A. top management can not ensure that a project is feasible before calling a system analyst
- B. top management is not sure what they want from the system

- C. even though top management is in favor of the system, technology may not be mature for implementation
- D. all organizations do it

View answer

Correct answer: (C)

even though top management is in favor of the system, technology may not be mature for implementation

78. Hardware study is carried out

- A. after the final system is specified
- B. at the requirements specification stage
- C. before the requirements are specified
- D. whenever management decides it is necessary

View answer

Correct answer: (A)

after the final system is specified

79. System evaluation is carried out

- A. after the system has been operational for a reasonable time
- B. during system implementation
- C. whenever managers of user organization want it
- D. whenever operational staff want it

View answer

Correct answer: (A)

after the system has been operational for a reasonable time

80. The primary responsibility of a systems analyst is to

- A. specify an information system which meets the requirements of an organization
- B. write programs to meet specifications
- C. maintain the system
- D. meet managers of the organization regularly

View answer

Correct answer: (A)

specify an information system which meets the requirements of an organization

81. Managers in organizations should not design their own systems as

- A. systems have to interact with other systems

- B. they do not have the special skills necessary to design systems
- C. it is not their job
- D. they are always very busy

View answer

Correct answer: (B)

they do not have the special skills necessary to design systems

82. It is necessary to prioritize information requirements of an organization at the requirements determination phase as

- A. it is always good to prioritize
- B. there are conflicting demands from users
- C. there are constraints on budgets, available time, human resource and requirement
- D. all good organization do it

View answer

Correct answer: (C)

there are constraints on budgets, available time, human resource and requirement

83. Initial requirements specification is

- A. not changed till the end of the project
- B. continuously changed during project implementation
- C. only a rough indication of the requirement
- D. changed and finalized after feasibility study

View answer

Correct answer: (C)

only a rough indication of the requirement

84. System design is carried out

- A. as soon as system requirements are determined
- B. whenever a system analyst feels it is urgent
- C. after final system specifications are approved by the organization
- D. whenever the user management feels it should be done

View answer

Correct answer: (C)

after final system specifications are approved by the organization

85. The main objective of system evaluation is

- A. to see whether the system met specification
- B. to improve the system based on operational experience for a period
- C. to remove bugs in the programs
- D. to asses the efficiency of the system

View answer

Correct answer: (B)

to improve the system based on operational experience for a period

86. The responsibilities of a system analyst include

- i. defining and prioritizing information requirement of an organization
- ii. gathering data, facts and opinions of users in an organization
- iii. drawing up specifications of the system for an organization
- iv. designing and evaluating the system

- A. i and ii
- B. i, ii and iv
- C. i, ii, iii and iv
- D. i, ii and iii

View answer

Correct answer: (D)

i, ii and iii

87. The role of a system analyst drawing up a requirements specification is similar to

- A. architect designing a building
- B. a structural engineer designing a building
- C. a contractor constructing a building
- D. the workers who construct a building

View answer

Correct answer: (A)

architect designing a building

88. Final specifications are drawn up by

- A. system analyst in consultation with the management of the organization
- B. the managers of user organization
- C. system analyst in consultation with programmers
- D. system designers along with users

View answer

Correct answer: (A)

system analyst in consultation with the management of the organization

89. The primary objective of system design is to

- A. design the programs, databases and test plan
- B. design only user interfaces
- C. implement the system
- D. find out how the system will perform

View answer

Correct answer: (A)

design the programs, databases and test plan

90. Changing an operational information system is

- A. impossible
- B. expensive and done selectively
- C. never required
- D. usually done

View answer

Correct answer: (B)

expensive and done selectively

91. The most important attribute of a systems analyst is

- A. excellent programming skills
- B. very good hardware designing skills
- C. very good technical management skills
- D. very good writing skills

View answer

Correct answer: (C)

very good technical management skills

92. It is necessary to consult the following while drawing up requirement specification

- A. only top managers
- B. only top and middle management
- C. only top, middle and operational managers
- D. top, middle and operational managers and also all who will use the system

View answer

Correct answer: (D)

top, middle and operational managers and also all who will use the system

93. The main goal of arriving at a final specification is

- A. to tell the organization's managers how the system will function
- B. to tell the organization's managers what the proposed system will achieve in a language understood by them
- C. to compute the cost of implementing the system
- D. to assist in designing the system

View answer

Correct answer: (B)

to tell the organization's managers what the proposed system will achieve in a language understood by them

94. The primary objective of system implementation is

- i. to build a system prototype
 - ii. to train users to operate the system
 - iii. to implement designed system using computers
 - iv. write programs, create databases and test with live data
-
- A. i, iii
 - B. i, ii, iii
 - C. ii, iii
 - D. ii, iv

View answer

Correct answer: (D)

ii, iv

95. Among the attributes of a good systems analyst the following are essential

- i. knowledge of organization
 - ii. analytical mind
 - iii. ability to communicate orally
 - iv. excellent mathematical abilities
-
- A. i and ii
 - B. i, ii and iii
 - C. i, ii and iv
 - D. i, iii and iv

View answer

Correct answer: (B)

i, ii and iii

96. In order to understand the working of an organization for which a computer based system is being designed, an analyst must

- A. look at only current work and document flow in the organization
- B. discuss with top level and middle level management only
- C. interview top, middle, line managers and also clerks who will enter data and use the system
- D. only clerical and middle level staff who have long experience in the organization and will be users of the system

View answer

Correct answer: (D)

only clerical and middle level staff who have long experience in the organization and will be users of the system

97. System test plan is specified

- A. when the final specifications are drawn up
- B. during feasibility study
- C. during the requirements specifications stage
- D. during system study stage

View answer

Correct answer: (A)

when the final specifications are drawn up

98. The main objective of system modification is

- A. to use the latest software tools
- B. to meet the user's new/changed needs
- C. to use the latest hardware
- D. to have the most modern system

View answer

Correct answer: (B)

to meet the user's new/changed needs

99. Among the attributes of a systems analyst the following are most important

- i. knowledge of computer systems and currently available hardware
- ii. good interpersonal relations
- iii. broad knowledge about various organizations

iv. very good accountancy knowledge

- A. i, iii and iv
- B. i and iii
- C. i, ii and iv
- D. i, ii and iii

View answer

Correct answer: (D)

i, ii and iii

100. A feasibility study is carried out

- A. after final requirements specifications are drawn up
- B. during the period when requirements specifications are drawn up
- C. before the final requirements specifications are drawn up
- D. at any time

View answer

Correct answer: (C)

before the final requirements specifications are drawn up

101. The main objective of feasibility study is

- A. to assess whether it is possible to meet the requirements specifications
- B. to assess if it is possible to meet the requirements specified subject to constraints of budget, human resource and hardware
- C. to assist the management in implementing the desired system
- D. to remove bottlenecks in implementing the desired system

View answer

Correct answer: (B)

to assess if it is possible to meet the requirements specified subject to constraints of budget, human resource and hardware

102. During system implementation the following are done

- i. programs are written and tested with operational data
- ii. user documentation is created and users trained
- iii. programmers are recruited and trained
- iv. the system is tested with operational data

- A. i and iii
- B. ii and iii
- C. ii and iv

D. i, ii & iv

View answer

Correct answer: (D)

i, ii & iv

103. The final specifications are arrived at

- A. after feasibility study
- B. during feasibility study
- C. just before implementation phase
- D. when the system is being designed

View answer

Correct answer: (A)

after feasibility study

104. To easily modify the existing system it is necessary to

- A. use good software tools
- B. use the best hardware available
- C. design the system which can be changed at low cost
- D. keep the programming team happy

View answer

Correct answer: (C)

design the system which can be changed at low cost

105. System approval criteria are specified

- A. when the final specifications are drawn up
- B. during feasibility study
- C. during the requirements specifications stage
- D. during system study stage

View answer

Correct answer: (A)

when the final specifications are drawn up

106. It is necessary to design an information system to easily accommodate change, because

- A. new computers are introduced every year
- B. new computer languages become popular every year
- C. organizations' requirements change over a period of time

D. systems need continuous debugging

View answer

Correct answer: (C)

organizations' requirements change over a period of time

107. Information is gathered for computerization during

- A. requirements determination phase
- B. systems design phase
- C. implementation phase
- D. feasibility phase

View answer

Correct answer: (A)

requirements determination phase

108. The following are good sources of information to design a system

- i. forms and documents used in the organization
 - ii. users of the proposed system
 - iii. procedure manuals of the organization which explains how various activities of the organization are carried out
 - iv. annual report of the organization
-
- A. i, ii and iii
 - B. i, ii and iv
 - C. i and ii
 - D. i and iii

View answer

Correct answer: (A)

i, ii and iii

109. Interviews are essential to gather

- A. quantitative information
- B. qualitative information
- C. facts and figures
- D. statistical information

View answer

Correct answer: (B)

qualitative information

110. Document Flow Diagrams are used to depict

- A. how and when documents flow in the organization
- B. various offices/entities of an organization and the documents as well as physical items which flow between these entities
- C. what documents flow in an organization
- D. how documents are generated and flow in an organization

View answer

Correct answer: (B)

various offices/entities of an organization and the documents as well as physical items which flow between these entities

111. In a document flow diagram a dashed line with an arrow depict

- A. flow of documents
- B. control flow
- C. flow of materials
- D. data flow

View answer

Correct answer: (C)

flow of materials

112. Data flow diagrams are developed by

- A. systems analyst
- B. programmers
- C. system designers
- D. users and managers of an organization

View answer

Correct answer: (A)

systems analyst

113. Information is gathered by a system analyst in order to

- A. find out whether a computer based system is required
- B. find out how the organization works
- C. find out how the current system works and what is expected from a new computer based system
- D. find out who will use the system

View answer

Correct answer: (C)

find out how the current system works and what is expected from a new computer based system

114. It is necessary to interview top level managers as the first step in information gathering

- A. otherwise you will not get cooperation
- B. they can give you an overview of the organization and specify objectives of the system
- C. they are usually not available
- D. the number of persons to be interviewed at top level is small

View answer

Correct answer: (B)

they can give you an overview of the organization and specify objectives of the system

115. It is good idea for a system analyst

- A. to define the objectives of the information system
- B. to tell the users what the objectives should be
- C. to let the user formulate the objectives of the information system being designed
- D. not to worry about the objective during the interviews

View answer

Correct answer: (C)

to let the user formulate the objectives of the information system being designed

116. Sending questionnaires are the good means of gathering

- A. quantitative data
- B. qualitative data
- C. both quantitative and qualitative data
- D. data from top management

View answer

Correct answer: (A)

quantitative data

117. An organization requests an information system to be designed when

- A. there is a change in management

- B. it is dissatisfied with the current system as it does not meet their information requirement
- C. the current system has been working for 2 years
- D. new software tools are introduced in the market

View answer

Correct answer: (B)

it is dissatisfied with the current system as it does not meet their information requirement

118. Graphical tools used to arrive at SRS are:

- i. Data Flow Diagrams
- ii. Program Flow Charts
- iii. System Flow Charts
- iv. Document Flow Diagrams

- A. i and ii
- B. ii and iii
- C. i and iv
- D. ii and iv

View answer

Correct answer: (C)

i and iv

119. In a document flow diagram arrows are necessary to depict

- A. how documents flow
- B. direction of flow of documents
- C. when documents flow
- D. whether documents flow or not

View answer

Correct answer: (B)

direction of flow of documents

120. The most difficult information to gather in an organization is

- A. that which is known to only few persons in an organization
- B. that which is not written down in an organizational manuals
- C. company confidential information
- D. what is consumed as obvious by the managers in an organization

View answer

Correct answer: (D)

what is consumed as obvious by the managers in an organization

121. It is necessary to gather

- A. quantitative information only as qualitative information is usually biased
- B. both qualitative and quantitative information
- C. qualitative information only as it is easily available
- D. qualitative information only as quantitative information is usually not correct

View answer

Correct answer: (B)

both qualitative and quantitative information

122. It is a good idea to prepare for an interview by

- i. studying background material and going with queries and checklist
 - ii. finding out what a user likes
 - iii. recapitulating and summarizing what transpired in previous interview(s)
 - iv. finding out what a user dislikes
-
- A. i and ii
 - B. ii and iv
 - C. i and iii
 - D. i, ii and iv

View answer

Correct answer: (C)

i and iii

123. The purpose of designing an information system is to

- A. modernize the functioning of an organization
- B. reduce the number of people employed by an organization
- C. provide operational, tactical and strategic information to efficiently manage an organization
- D. improve the day-to-day working of an organization

View answer

Correct answer: (C)

provide operational, tactical and strategic information to efficiently manage an organization

124. Document flow diagrams are usually developed during

- A. System design phase
- B. Feasibility study
- C. Implementation phase
- D. Fact gathering phase

View answer

Correct answer: (D)

Fact gathering phase

125. Data flow diagrams are usually developed during

- A. system design phase
- B. feasibility study
- C. implementation phase
- D. systems analysis phase

View answer

Correct answer: (D)

systems analysis phase

126. Gathering information in large and complex organizations is difficult and takes time because

- i. it is necessary to consult a large number of persons at various levels of hierarchy in the organization
 - ii. one has to examine the current system in detail
 - iii. a clear strategy has to be evolved to gather information
 - iv. it is necessary to use an information flow model of an organization
-
- A. i and iii
 - B. iii and iv
 - C. i and ii
 - D. ii and iv

View answer

Correct answer: (C)

i and ii

127. During interviews an analyst must

- A. gather information on user requirements, procedures and practices
- B. tell the user what is good for organization
- C. tell the user how to run the organization
- D. tell the user what is wrong with the organization

View answer

Correct answer: (A)

gather information on user requirements, procedures and practices

128. Besides interviewing following methods help in gathering facts

- i. studying systems used by similar organization for the same purpose
- ii. reading case studies reported for similar organization
- iii. sending letters to all managers of the organization
- iv. sending letters to the clients of the organization

- A. i, ii iii
- B. i and ii
- C. i and iii
- D. iii and iv

View answer

Correct answer: (B)

i and ii

129. The expansion of SRS is

- A. System Requirements Specification
- B. System Resources Statement
- C. Statement of Reliability of System
- D. Standard Requirements Statement

View answer

Correct answer: (A)

System Requirements Specification

130. In a document flow diagram a solid line with an arrow depicts

- A. flow of documents
- B. control flow
- C. flow of materials
- D. data flow

View answer

Correct answer: (A)

flow of documents

131. A strategy to gather information consists of

- i. identifying information sources

- ii. using information flow model of organization
- iii. examining systems of other organizations
- iv. rely on ones experience

- A. i and ii
- B. i and iii
- C. ii and iv
- D. ii and iii

View answer

Correct answer: (A)

i and ii

132. Questionnaires are used when

- i. a large number of people's responses are required
- ii. manual data processing is required
- iii. when a small number of people's response is required
- iv. it is difficult to personally interview people

- A. i and ii
- B. ii and iii
- C. iii and iv
- D. i and iv

View answer

Correct answer: (D)

i and iv

133. System Requirements Specification is developed by

- A. users of the proposed system
- B. top level managers of an organization
- C. examining the functioning of similar organizations
- D. systems analyst after information gathering phase in consultation with users

View answer

Correct answer: (D)

systems analyst after information gathering phase in consultation with users

4. In a document flow diagram entities are represented by

- A. circles
- B. rectangles with rounded edges
- C. diamond shaped boxes

D. rectangles

[View answer](#)

Correct answer: (D)
rectangles

135. The following manners should be observed during interviews

- i. make prior appointment for interviews
- ii. not prolong interview beyond 30 to 40 minutes
- iii. take notes after obtaining permissions
- iv. interrupt the user often to show you are listening

- A. i, ii and iv
- B. i, ii and iii
- C. i and ii
- D. i, iii and iv

[View answer](#)

Correct answer: (B)
i, ii and iii

136. In order to get fast response when questionnaires are sent

- i. the questionnaire must be simple to answer
- ii. the questionnaire should be comprehensive
- iii. the questionnaire should be short
- iv. the questionnaire should be long

- A. i, ii
- B. ii, iv
- C. i, iii
- D. i, iv

[View answer](#)

Correct answer: (C)
i, iii

137. Document flow diagrams are developed by

- A. systems analyst
- B. programmers
- C. system designers
- D. users and managers of an organization

View answer

Correct answer: (A)
systems analyst

138. Among information gathering methods, interviewing is essential as

- A. it gives an opportunity to question the interviewees and clarify details and doubts the analyst may have
- B. it can be easily arranged
- C. it is recommended by senior analysts
- D. it is necessary to meet everyone in the organization

View answer

Correct answer: (A)

it gives an opportunity to question the interviewees and clarify details and doubts the analyst may have

139. The main objective of System Requirements Specification is to

- A. enable a systems analyst to satisfy himself and the user that they have mutually understand the user's information requirements
- B. write down the requirements clearly
- C. estimate the cost of developing the system
- D. to make sure that it is possible to develop the system

View answer

Correct answer: (A)

enable a systems analyst to satisfy himself and the user that they have mutually understand the user's information requirements

140. All information required can be gathered in

- A. one interview
- B. two interviews
- C. several interviews
- D. several interviews and group discussions

View answer

Correct answer: (D)

several interviews and group discussions

141. The following should be avoided during interviews with users

- A. interrupting a user when something is not clear
- B. taking note

- C. using computer jargon
- D. not laughing when user jokes

View answer

Correct answer: (C)

using computer jargon

142. Data flow diagrams are used to depict

- A. how and when data flows in an organization
- B. what documents flow in an organization
- C. what data flows between entities and how they are processed
- D. how data are generated and flow in an organization

View answer

Correct answer: (C)

what data flows between entities and how they are processed

143. Pick quantified goals from those given below

- i. payment should be made promptly
 - ii. payment should be made before 5th of every month
 - iii. the age of the persons should be below 35
 - iv. the person to be recruited should be middle aged
-
- A. i and ii
 - B. i and iii
 - C. ii and iii
 - D. ii and iv

View answer

Correct answer: (C)

ii and iii

14414. During feasibility analysis it is necessary to examine several alternative solutions because

- A. the inventory should be reduced effectively
- B. the inventory should be reduced significantly
- C. the inventory should be reduced very much
- D. the inventory should be reduced by 25%

View answer

Correct answer: (D)

the inventory should be reduced by 25%

145. During feasibility analysis it is necessary to examine several alternative solutions because

- i. a comparison of alternatives will lead to a cost-effective solution
- ii. a pre-conceived single solution may turn out to be unimplementable
- iii. it is always good to examine alternatives
- iv. management normally looks at alternatives

- A. i and iii
- B. i and iv
- C. i and ii
- D. ii and iv

View answer

Correct answer: (C)

i and ii

146. A cost-benefit analysis is performed to assess

- A. economic feasibility
- B. operational feasibility
- C. technical feasibility
- D. all of the above

View answer

Correct answer: (A)

economic feasibility

147. The intangible benefits in the following list are

- i. savings due to reducing investment
- ii. savings due to sending bills faster and consequent early collection
- iii. providing better service to the customers
- iv. improving quality of company's products

- A. i and ii
- B. iii and iv
- C. ii and iii
- D. i and iii

View answer

Correct answer: (C)

ii and iii

148. In designing a system it is found that the cost of the system was Rs 1,50,000 and the benefit is Rs 10,000 per month. The interest is 1% per month; the payback period using the present value method is

- A. 14 months
- B. 17 months
- C. 15 months
- D. 20 months

View answer

Correct answer: (B)

17 months

149. The following are the most important points of a detailed system proposal

- i. who will supply and install the required equipment
- ii. cost-benefit analysis
- iii. comparison of alternative solutions
- iv. implementation plan

- A. i, ii and iii
- B. i, iii and iv
- C. ii, iii and iv
- D. ii and iii

View answer

Correct answer: (C)

ii, iii and iv

150. Quantification of goals is required because

- A. without quantification no work can be done
- B. when goals are quantified it is possible to verify unambiguously whether they have been fulfilled
- C. goals have to be quantified for a good system
- D. it facilitates designing a good system

View answer

Correct answer: (B)

when goals are quantified it is possible to verify unambiguously whether they have been fulfilled

151. Goals should be agreeable to

- A. top management

- B. project leader
- C. all concerned, both management and operational staff
- D. programmers

View answer

Correct answer: (C)

all concerned, both management and operational staff

152. By economic feasibility of a system we mean that

- A. it is economical to operate
- B. it is expensive to operate
- C. it will be cost-effective if implemented
- D. finances are available to implement the system and it will be cost-effective

View answer

Correct answer: (D)

finances are available to implement the system and it will be cost-effective

153. The tangible benefits in the following list are

- i. savings due to reducing investment
 - ii. savings due to sending bills faster and consequent early collection
 - iii. providing better service to the customers
 - iv. improving quality of company's products
-
- A. i and ii
 - B. ii and iii
 - C. iii and iv
 - D. i and iii

View answer

Correct answer: (A)

i and ii

154. The most important parts of a feasibility report are

- i. cost-benefit analysis
 - ii. statement of the objective of the proposed system
 - iii. who will supply equipment for implementing the system
 - iv. organizational changes needed to successfully implement the system
-
- A. i and ii
 - B. i, ii and iii
 - C. i and iv

D. i, ii and iv

View answer

Correct answer: (D)

i, ii and iv

155. The main objectives of a detailed system proposal are to

- i. convince management about the benefits of the proposed system
- ii. explain in detail to the management what to expect from the system and at what cost
- iii. have a detailed plan on what the system will do and how it will be implemented
- iv. make sure that it is possible to implement the system

- A. i and ii
- B. ii and iii
- C. i and iv
- D. ii and iv

View answer

Correct answer: (B)

ii and iii

156. Quantification of goals is done by

- A. converting subjective goal statements to ones with numbers
- B. converting subjective goal statements to objective goal statements
- C. converting objective goal statements to subjective goal statements
- D. removing all adjectives in a goal statement

View answer

Correct answer: (A)

converting subjective goal statements to ones with numbers

157. Goals should be broken down to sub-goals as it

- A. expedites system design
- B. provides a convenient target to aim at during system design
- C. is recommended by experienced analysts
- D. is good idea to use

View answer

Correct answer: (B)

provides a convenient target to aim at during system design

158. A solution is said to be feasible for implementation if

- i. it is cost-effective and finance is available to implement it
- ii. technology is available to implement it
- iii. it can be adapted to work in an organization's environment
- iv. it has been implemented in another organization

- A. ii and iii
- B. i, ii and iii
- C. i and iv
- D. i, ii and iv

View answer

Correct answer: (B)

i, ii and iii

159. Intangible benefits are

- A. not very important
- B. as important as tangible benefits
- C. the most important benefits
- D. irrelevant in feasibility study

View answer

Correct answer: (B)

as important as tangible benefits

160. At the end of the feasibility study the systems analyst

- A. meets the users for a discussion
- B. gives a summary feasibility report to the management
- C. gives a systems proposal to management
- D. tells the top management if the system is not feasible

View answer

Correct answer: (B)

gives a summary feasibility report to the management

161. Goals are identified by

- A. finding the deficiencies in the current system
- B. observing the current system
- C. analyzing competitor's system
- D. finding the advantages in the current system

View answer

Correct answer: (A)

finding the deficiencies in the current system

162. A computer-based information system

- A. may require some tasks to be done manually
- B. should not have any manual tasks
- C. is always fully automated
- D. may use only computers

View answer

Correct answer: (A)

may require some tasks to be done manually

163. The primary objective of cost-benefit analysis is

- A. to find out direct and indirect cost of developing the information system
- B. to determine the tangible benefits of the information system
- C. to determine if it is economically worthwhile to invest in developing the information system
- D. to determine the intangible benefits of the information system

View answer

Correct answer: (C)

to determine if it is economically worthwhile to invest in developing the information system

164. Pick the indirect cost from the following

- A. cost of new forms
- B. cost of training analysts and users
- C. cost of software to be brought
- D. cost of fact gathering

View answer

Correct answer: (D)

cost of fact gathering

165. A detailed system proposal is prepared by a systems analyst if

- A. management is not clear about what the system will do
- B. the analysts feels it is necessary to convince the management
- C. management approves the feasibility report
- D. the analyst feels it will be a challenging system to implement

View answer

Correct answer: (C)

management approves the feasibility report

166. Deficiencies in a system are pinpointed by identifying

- i. missing function
- ii. excessive cost of operation
- iii. poor management
- iv. poor operation

- A. i and iii
- B. i and ii
- C. i and iv
- D. ii and iii

View answer

Correct answer: (B)

i and ii

167. Among alternative solutions for an information system one may consider

- A. PC based solutions only
- B. an improved manual system
- C. only client-server based solutions as they are popular now-a-days
- D. whatever management decides

View answer

Correct answer: (B)

an improved manual system

168. A cost-benefit analysis is performed as a part of

- A. system design
- B. system specification
- C. system performance assessment
- D. feasibility analysis

View answer

Correct answer: (D)

feasibility analysis

169. In payback method one finds out

- A. the period necessary to invest the cost of the system

- B. the time required for the full benefits to accrue
- C. the time at which benefits exceed cost
- D. whether the system is able to payback amount invested

View answer

Correct answer: (C)

the time at which benefits exceed cost

170. Goals are identified by

- A. discussion with all concerned
- B. pinpointing unsatisfactory performance
- C. finding poor management
- D. examining a variety of documents

View answer

Correct answer: (B)

pinpointing unsatisfactory performance

171. A cost benefit analysis consists of

- i. finding the direct and indirect cost of developing, implementing and running the system
 - ii. finding out the tangible and intangible benefit of the system
 - iii. finding the investment to be made in the system
 - iv. finding the profit which will accrue from the system
-
- A. iii and iv
 - B. i and iv
 - C. ii and iii
 - D. i and ii

View answer

Correct answer: (D)

i and ii

172. By technical feasibility of a solution we mean that

- A. technology is available to implement it
- B. persons are available to implement it
- C. persons have technical ability to implement it
- D. funds are available to implement it

View answer

Correct answer: (A)
technology is available to implement it

173. In simple payback method one

- A. accounts for interest payments on benefits
- B. ignores interest payments
- C. only accounts for interest on capital investments
- D. only accounts for interest on recurring expenses

View answer

Correct answer: (B)
ignores interest payments

174. By operational feasibility we mean

- A. the system can be operated nicely
- B. the system is unusable by operators
- C. the system can be adapted by an organization without major disruptions
- D. the system can be implemented

View answer

Correct answer: (C)
the system can be adapted by an organization without major disruptions

175. In designing a system it is found that the cost of the system was Rs 1,50,000 and the benefit is Rs 10,000 per month. The interest is 1% per month; the payback period using payback method with interest is

- A. 14 months
- B. 17 months
- C. 15 months
- D. 20 months

View answer

Correct answer: (C)
15 months

176. Characteristics of good goals are that they

- i. are quantified
- ii. improve quality
- iii. are realizable within the constraints of the organization
- iv. aim at an ideal system

- A. i and ii
- B. ii and iv
- C. ii and iii
- D. i and iii

View answer

Correct answer: (D)

i and iii

177. In a DFD external entities are represented by a

- A. rectangle
- B. ellipse
- C. diamond shaped box
- D. circle

View answer

Correct answer: (A)

rectangle

178. A data cannot flow between a store and

- i. a store
- ii. a process
- iii. an external entity

- A. i and iii
- B. i and ii
- C. ii and iii
- D. ii

View answer

Correct answer: (A)

i and iii

179. A context diagram

- A. describes the context of a system
- B. is a DFD which gives an overview of the system
- C. is a detailed description of a system
- D. is not used in drawing a detailed DFD

View answer

Correct answer: (B)

is a DFD which gives an overview of the system

180. Before developing a logical DFD it is a good idea to

- A. develop a physical DFD
- B. develop a system flow chart
- C. determine the contents of all data stores
- D. find out user's preferences

View answer

Correct answer: (A)

develop a physical DFD

181. A data flow can

- A. only emanate from an external entity
- B. only terminate in an external entity
- C. may emanate and terminate in an external entity
- D. may either emanate or terminate in an external entity but not both

View answer

Correct answer: (C)

may emanate and terminate in an external entity

182. Data cannot flow between two data stores because

- A. it is not allowed in a DFD
- B. a data store is a passive repository of data
- C. data can get corrupted
- D. they will get merged

View answer

Correct answer: (D)

they will get merged

183. A DFD is normally levelled as

- A. it is a good idea in design
- B. it is recommended by many experts
- C. it is easy to do it
- D. it is easier to read and understand a number of smaller DFDs than one large

View answer

Correct answer: (D)

it is easier to read and understand a number of smaller DFDs than one large

184. When a process is expanded during levelling

- A. data flows entering it are replaced
- B. all data stores used by it are replaced
- C. all data flows entering it must also enter the levelled DFD
- D. all external entities used by it are replaced

View answer

Correct answer: (C)

all data flows entering it must also enter the levelled DFD

185. A rectangle in a DFD represents

- A. a process
- B. a data store
- C. an external entity
- D. an input unit

View answer

Correct answer: (C)

an external entity

186. Data cannot flow from an external entity to an external entity because

- A. it will get corrupted
- B. it is not allowed in DFD
- C. an external entity has no mechanism to read or write
- D. both are outside the context of the system

View answer

Correct answer: (D)

both are outside the context of the system

187. A DFD is levelled by

- A. examining complex processes in a DFD and expanding them into new DFDs with more processes which are easy to understand
- B. merging a number of simple processes in a DFD into a complex processes in a new DFD
- C. expanding the functions of a number of external entities into simpler functions
- D. splitting a number of data flows into simpler data flows

View answer

Correct answer: (A)

examining complex processes in a DFD and expanding them into new DFDs with more processes which are easy to understand

188. A physical DFD specifies

- A. what processes will be used
- B. who generates data and who processes it
- C. what each person in an organization does
- D. which data will be generated

View answer

Correct answer: (B)

who generates data and who processes it

189. By an external entity we mean a

- A. unit outside the system being designed which can be controlled by an analyst
- B. unit outside the system whose behavior is independent of the system being designed
- C. a unit external to the system being designed
- D. a unit which is not part of a DFD

View answer

Correct answer: (C)

a unit external to the system being designed

190. Data flow in a DFD must have

- i. an arrow showing direction of flow of data
 - ii. a meaningful name
 - iii. a label such as: xyz
 - iv. no arrows as they are confusing
-
- A. i and iii
 - B. ii and iv
 - C. iii and iv
 - D. i and ii

View answer

Correct answer: (D)

i and ii

191. By levelling a DFD we mean

- A. splitting it into different levels
- B. make its structure uniform
- C. expanding a process into one with more sub-processes giving more detail
- D. summarizing a DFD to specify only the essentials

View answer

Correct answer: (C)

expanding a process into one with more sub-processes giving more detail

192. When a DFD is levelled

- A. new external entities may be required
- B. no new processes are allowed
- C. no new data flows are allowed
- D. new data stores may be necessary and are allowed

View answer

Correct answer: (D)

new data stores may be necessary and are allowed

193. A physical DFD

- A. has no means of showing material flow
- B. does not concern itself with material flow
- C. can show only stored material
- D. can show the flow of material

View answer

Correct answer: (D)

can show the flow of material

194. A data store in a DFD represents

- A. a sequential file
- B. a disk store
- C. a repository of data
- D. a random access memory

View answer

Correct answer: (C)

a repository of data

195. When a DFD is levelled it is a good idea not to

- A. be concerned about the number of new processes at the next level
- B. allow more than 5 to 10 new processes at the next level for each expanded process
- C. allow new data stores at the next level
- D. allow any new processes at the next level

View answer

Correct answer: (B)

allow more than 5 to 10 new processes at the next level for each expanded process

196. External Entities may be a

- A. source of input data only
- B. source of input data or destination of results
- C. destination of results only
- D. repository of data

View answer

Correct answer: (B)

source of input data or destination of results

197. A context diagram is used

- A. as the first step in developing a detailed DFD of a system
- B. in systems analysis of very complex systems
- C. as an aid to system design
- D. as an aid to programmers

View answer

Correct answer: (A)

as the first step in developing a detailed DFD of a system

198. A data flow can

- A. only enter a data store
- B. only leave a data store
- C. enter or leave a data store
- D. either enter or leave a data store but not both

View answer

Correct answer: (C)

enter or leave a data store

199. When a DFD is levelled no new

- A. data stores may appear
- B. external entities may appear
- C. processes may appear
- D. data flows may appear

View answer

Correct answer: (B)
external entities may appear

200. Structured English is used to describe

- A. how programs are to be written
- B. processes in a DFD in a reasonably precise manner
- C. how DFDs are used in data processing
- D. data flows in DFD

View answer

Correct answer: (B)
processes in a DFD in a reasonably precise manner

201. A decision table

- A. has a structured English equivalent representation
- B. cannot be represented using structured English
- C. does not have an equivalent algorithmic representation
- D. cannot be used to represent processes in a DFD

View answer

Correct answer: (A)
has a structured English equivalent representation

202. Select statements from the following list which may be used in structured English

- i. if marks are too low fail student
- ii. if marks ≥ 60 enter first class
- iii. if average height select candidate
- iv. if weight < 40 kg. reject candidate

- A. i and ii
- B. ii and iii
- C. iii and iv
- D. ii and iv

View answer

Correct answer: (D)
ii and iv

203. Structured English description of processes

- i. should be understandable to a user of a computer based system
- ii. should be understandable to a programmer

- iii. can be descriptive in nature
- iv. should be translatable by a compiler

- A. i and iii
- B. ii and iv
- C. i, ii and iv
- D. i and ii

View answer

Correct answer: (D)

i and ii

204. Structured English statements must be

- A. short and clear
- B. specified quantitatively
- C. specified qualitatively
- D. detailed and descriptive

View answer

Correct answer: (B)

specified quantitatively

205. An extended entry decision table has

- A. only Y, N or - entries
- B. entries which extend the condition
- C. questions asked extended into the condition entry part of the table
- D. only numerical entries

View answer

Correct answer: (C)

questions asked extended into the condition entry part of the table

206. In a limited entry decision table the condition entries may be

- A. Y or N only
- B. Y, N or -
- C. A binary digit
- D. Any integer

View answer

Correct answer: (B)

Y, N or -

207. A X against an action in an action row signifies that the

- A. action is not to be taken
- B. action is to be taken
- C. action is important
- D. action is not important

View answer

Correct answer: (B)

action is to be taken

208. In a limited entry decision table the condition stub

- A. lists X or - corresponding to actions to be executed
- B. lists the conditions to be tested
- C. has Y or N or - entries
- D. lists the actions to be taken

View answer

Correct answer: (B)

lists the conditions to be tested

209. The conditions in the condition stub of a limited entry decision table

- A. must be in sequential order
- B. must be in the order in which they are to be tested
- C. may be in any order
- D. must be in the order in which they are to be executed

View answer

Correct answer: (C)

may be in any order

210. The following while structure is wrong because

```
balance =500
```

```
while balance <=1000 do
```

```
Write (amount due - balance)
```

```
Read next record
```

```
end while
```

- A. read must appear before write
- B. this loop will never terminate
- C. no read allowed in a loop the contents of next record is not known

View answer

Correct answer: (B)
this loop will never terminate

211. Select correct decision structures from the following

- i. **if** total marks ≥ 75
then enter distinction in student record
end if
- ii. **if** total marks ≥ 50
then enter pass in student record
else enter fail in student record
end if
- iii. **if** total marks ≥ 60
then enter first class in student record
else if total marks ≥ 50
then enter second class in student record
else
enter fail in student record
end if
- iv. **if** attendance $< 30\%$
then
do not admit in examination
else

- A. ii and iii
- B. i and ii
- C. iii and iv
- D. i and iv

View answer

Correct answer: (A)
ii and iii

212. In the following word statement the conditions are: "if a student gets 50 marks or more in mathematics and 40 marks or more in English he passes the examination, otherwise he fails"

- A. student passes the examination
- B. student fails the examination

- C. student gets 50 marks or more in mathematics
- D. student mathematics marks ≥ 50 and student English marks ≥ 40

View answer

Correct answer: (D)

student mathematics marks ≥ 50 and student English marks ≥ 40

213. A rule in a limited entry decision table is a

- A. row of the table consisting of condition entries
- B. row of the table consisting of action entries
- C. column of the table consisting of condition entries and the corresponding action entries
- D. columns of the tables consisting of conditions of the stub

View answer

Correct answer: (C)

column of the table consisting of condition entries and the corresponding action entries

214. An extended entry decision table is

- A. very difficult to understand
- B. quite concise compared to a limited entry decision table developed for the same task
- C. large compared to a limited entry table developed for the same task
- D. is not very often used

View answer

Correct answer: (B)

quite concise compared to a limited entry decision table developed for the same task

215. A-against an action in an action row signifies that the

- A. action is not to be taken
- B. action is to be taken
- C. action is important
- D. action is not important

View answer

Correct answer: (A)

action is not to be taken

216. In a limited entry decision table the condition entries

- A. list X or - corresponding to actions to be executed
- B. list the conditions to be tested
- C. have Y or N or - entries
- D. list the actions to be taken

View answer

Correct answer: (C)

have Y or N or - entries

217. A decision table is preferable when the number of

- A. conditions to be checked in a procedure is small
- B. conditions to be checked in a procedure is large
- C. actions to be carried out are large
- D. actions to be carried out are small

View answer

Correct answer: (B)

conditions to be checked in a procedure is large

218. Decision table description of data processing is

- A. non-procedural specification
- B. procedural specification
- C. purely descriptive specification
- D. very imprecise specification

View answer

Correct answer: (A)

non-procedural specification

219. The following structured English procedure is incorrect because case (code)

Code=2 : **if** purchase amount \geq 5000

then discount=5%

Code=1 : discount=2%

Code=3 : **if** purchase amount \geq 4000

then discount =2%

else if code=4

then discount =5%

end if

None of the above codes : discount=0

end case

- A. code=2 should appear after code=1

- B. if statement cannot be used within a case
- C. code=4 should not be used in the action for code=3
- D. The statement is correct

View answer

Correct answer: (C)

code=4 should not be used in the action for code=3

220. Structured English is a

- A. structured programming language
- B. description of processes in simple English
- C. method of describing computational procedures reasonably precisely in English
- D. natural language based algorithmic language

View answer

Correct answer: (C)

method of describing computational procedures reasonably precisely in English

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System Analysis and Design

221. The objective of using structured English is to

- A. describe computational procedures reasonably precisely which can be understood by any user
- B. expand a DFD so that a user can understand it
- C. develop algorithms corresponding to processes in a DFD
- D. ease writing programs for DFDs

View answer

Correct answer: (A)

describe computational procedures reasonably precisely which can be understood by any user

222. Structured English description of data processing is a

- A. non-procedural specification
- B. procedural specification
- C. purely descriptive specification
- D. very imprecise specification

View answer

Correct answer: (B)

procedural specification

223. An extended entry decision table

- A. has no limited entry equivalent
- B. cannot be replaced by a table with only Y, or - entries
- C. may have Yes, No answers to conditions
- D. can always be converted to an equivalent limited entry decision table

View answer

Correct answer: (D)

can always be converted to an equivalent limited entry decision table

224. The actions in the action stub of a limited entry decision table

- A. must be in sequential order
- B. must be in the order in which they are to be tested
- C. may be in any order
- D. must be in the order in which they are to be executed

View answer

Correct answer: (D)

must be in the order in which they are to be executed

225. Select from the following list which are appropriate to use in structured English description of a process

- i. **process inventory records**
- ii. **find the sum of outstanding billed amounts**
- iii. **check if outstanding amount \geq Rs. 5000**
- iv. **check if stock is low**

- A. i and ii
- B. i and iii
- C. iii and iv
- D. ii and iii

View answer

Correct answer: (D)

ii and iii

226. A decision table is

- A. a truth table
- B. a table which facilitates taking decisions
- C. a table listing conditions and actions to be taken based on the testing of conditions
- D. a table in a Decision Support System

View answer

Correct answer: (C)

a table listing conditions and actions to be taken based on the testing of conditions

227. In the following word statement the actions are "if a student gets 50 marks or more in mathematics and 40 marks or more in English he passes the examination, otherwise he fails"

- i. **student passes the examination**
- ii. **student fails the examination**
- iii. **student gets 50 marks or more in mathematics**
- iv. **student mathematics marks ≥ 50 and student English marks ≥ 40**

- A. i and ii
- B. i and iii
- C. ii and iii
- D. iii and iv

View answer

Correct answer: (A)

i and ii

228. In a limited entry decision table a-entry against a condition signifies that

- A. the outcome of testing the condition is irrelevant
- B. it is an important condition
- C. the condition should be tested

D. the condition is a Boolean condition

View answer

Correct answer: (A)

the outcome of testing the condition is irrelevant

229. In a limited entry decision table the action entries

- A. list X or - corresponding to actions to be executed
- B. list the conditions to be tested
- C. have Y or N or - entries
- D. list the actions to be taken

View answer

Correct answer: (A)

list X or - corresponding to actions to be executed

230. The following structured English procedure is incorrect because

if balance in account ≤ 0

then

{issue exception note to dept.

mark "stop future issues" in

departments record}

else

if balance in account $<$ minimum balance

then

{ issue item to dept.

issue warning to dept.}

end if

end if

- A. **end if** in second if is not needed
- B. nesting of **ifs** is not correct
- C. no action is specified when balance in account \geq minimum balance
- D. the value of minimum balance is not specified

View answer

Correct answer: (C)

no action is specified when balance in account \geq minimum balance

231. The following structural English is incorrect because

case (income slab)

Income slab =1 : tax= 10%

Income slab =2 or 3 : tax= 20%

Income slab =5 : tax= 30%

end case

- A. no action is specified for income slab of 4
- B. income slab has to be rupees
- C. income slab =2 or 3 is wrong
- D. number of cases is too small

View answer

Correct answer: (A)

no action is specified for income slab of 4

232. In a limited entry decision table the action stub

- A. lists X or - corresponding to actions to be executed
- B. lists the conditions to be tested
- C. has Y or N or - entries
- D. lists the actions to be taken

View answer

Correct answer: (D)

lists the actions to be taken

233. In "test 4" missing rule is:

- A. NYNN
- B. NYYN
- C. YYNN
- D. YNYN

View answer

Correct answer: (C)

YYNN

234. In "test 4" the contradictory actions are:

- A. A1, A3
- B. A1, A2
- C. A2, A3
- D. A2, I

View answer

Correct answer: (B)

A1, A2

235. Decision tables are better than Decision trees when

- A. Conditions are to be isolated from actions in a word statement
- B. Condition sequences are to be found from a word statement
- C. Logical correctness of a word statement is to be established
- D. Large number of actions is to be performed

View answer

Correct answer: (C)

Logical correctness of a word statement is to be established

236. Rule R1 is interpreted as follows:

- A. If C1 is TRUE and C2 is FALSE then perform action A2
- B. If C1 is TRUE and C2 is FALSE then perform action A1 and then action A2
- C. If C1 is TRUE and C2 is FALSE then perform action A3 and then action A1
- D. If C1 is TRUE and C2 is FALSE then perform action A1 and then action A3

View answer

Correct answer: (D)

If C1 is TRUE and C2 is FALSE then perform action A1 and then action A3

237. Decision table "test2" is

- A. really incomplete
- B. complete
- C. apparently incomplete
- D. apparently complete

View answer

Correct answer: (C)

apparently incomplete

238. The decision table given in answer (a) of question 9.4.3 is

- A. incomplete
- B. apparently ambiguous
- C. has contradictory specifications
- D. logically complete

View answer

Correct answer: (D)

logically complete

239. The decision table "test 3" is

- A. incomplete
- B. ambiguous
- C. incorrect
- D. has redundancies

View answer

Correct answer: (D)

has redundancies

240. Decision Trees are preferred when

- A. Too many conditions need to be tested
- B. Sequencing of testing conditions is important
- C. When there are many loops to be performed
- D. When too many actions are to be taken

View answer

Correct answer: (B)

Sequencing of testing conditions is important

241. The objective of using decision trees is to

- A. Expand a DFD so that a user can understand it
- B. To specify sequence of conditions to be tested and actions to be taken
- C. Describe a computational procedure that can be easily understood by a person
- D. Use it as a tool in decision support system

View answer

Correct answer: (B)

To specify sequence of conditions to be tested and actions to be taken

242. Decision Tables are preferred when

- A. Too many conditions need to be tested
- B. Sequencing of testing conditions is important
- C. When there are many loops to be performed
- D. When too many actions are to be taken

View answer

Correct answer: (A)

Too many conditions need to be tested

243. Rule R3 is interpreted as follows:

- A. If C1 is TRUE and C2 is TRUE then perform action A1 and A2
- B. If C1 is TRUE or C2 is TRUE then perform action A3
- C. If C1 is TRUE and C2 is TRUE then perform action A1 or A2
- D. If C1 is TRUE and C2 is TRUE then perform action A3

View answer

Correct answer: (D)

If C1 is TRUE and C2 is TRUE then perform action A3

244. Structured English is preferred when

- A. Too many conditions need to be tested
- B. Sequencing of testing conditions is important
- C. When there are many loops to be performed
- D. When too many actions are to be taken

View answer

Correct answer: (C)

When there are many loops to be performed

245. Logical correctness of a specifications can be systematically checked by

- A. Using decision trees
- B. Using structured English
- C. Using DFD's
- D. Using decision tables

View answer

Correct answer: (D)

Using decision tables

246. 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

View answer

Correct answer: (A)

every data element in a data flow

247. Structured English equivalent of the decision table "test" are given below

i.	if C1 then then do else do end else do end if	A1	if C2 and	TRUE TRUE A3 A3 if A2
ii.	if C1 then do else then do else do end end if	A1	if C2 and	FALSE A2 TRUE A3 A3 if
iii.	if C2 then then do else do end else do end if	A1	if C1 and	TRUE TRUE A3 A2 if A3
iv.	if then then do else do end else do end	A1	C2 if C1 and	FALSE TRUE A3 A2 if A3 if

Which of the following are correct?

- A. i and iii
- B. i and ii
- C. iii and iv
- D. ii and iv

View answer
 Correct answer: (B)
 i and ii

248. Decision trees are superior to decision tables when

- A. The number of conditions to be tested is very large

- B. When sequence of testing conditions is not particularly important
- C. When sequence of testing conditions is not particularly important
- D. When a large number of actions are to be specified

View answer

Correct answer: (C)

When sequence of testing conditions is not particularly important

249. Structured English equivalents of decision table "test" are given below. Pick the right ones

- i. **if** C1 TRUE and C2 FALSE then R=1 **end if**
if C1 FALSE then R=2 **end if**
if C1 TRUE and C2 TRUE then R=3 **end if**
case (R)
R=1; perform actions A1 **and** A3
R=2; perform action A2
R=3; perform action A3
end case
- ii. **if** C1 TRUE and C2 FALSE then perform actions A1, A3 **end if**
if C1 FALSE then perform action A2 **end if**
if C1 TRUE **and** C2 TRUE then perform action A3 **end if**
- iii. **case** (C1 TRUE **and** C2 FALSE) Rule R1
case (C1 FALSE) Rule R2
case (C1 TRUE **and** C2 TRUE) Rule R3
end case
- iv. **if** C1 TRUE **and** C2 TRUE then do Rule R3 **end if**
if C1 TRUE **and** C2 FALSE then do Rule R1 **end if**
if C1 TRUE **then** do Rule R2 **end if**

- A. i and ii
- B. i and iii
- C. ii and iii
- D. iii and iv

View answer

Correct answer: (A)

i and ii

250. 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)

View answer

Correct answer: (B)

(i) and (ii)

251. 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

View answer

Correct answer: (B)

the volume of data handled is large

252. 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

View answer

Correct answer: (C)

select one out of many alternatives often by a mouse click

253. 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

View answer

Correct answer: (A)

conveys information on item being coded

254. 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

View answer

Correct answer: (C)

ii, iii and iv

255. 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

View answer

Correct answer: (B)

weights may all be equal and > 0

256. 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

View answer

Correct answer: (D)

total of selected fields of a record

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

- A. 1200
- B. 12000
- C. 120
- D. 2400

View answer

Correct answer: (D)

2400

258. 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

View answer

Correct answer: (C)

designation field

259. 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)

View answer

Correct answer: (B)

(i) and (iv)

260. 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

View answer

Correct answer: (A)

Give immediate feedback if incorrect data is entered

261. 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

View answer

Correct answer: (A)

it is a concise representation of the field

262. 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

View answer

Correct answer: (B)

ii and iii

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

- A. alphanumeric codes
- B. numeric codes
- C. hexadecimal codes
- D. serial number code

View answer

Correct answer: (B)

numeric codes

264. Modulus-17 check character for the hexadecimal code AB4567 is

- A. F
- B. D
- C. 1
- D. 0

View answer

Correct answer: (B)

D

265. Radix check for a field representing year is

- A. possible
- B. not possible
- C. not relevant
- D. may be tried

View answer

Correct answer: (B)

not possible

266. 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

View answer

Correct answer: (A)

i and ii

267. By metadata we mean

- A. very large data
- B. data about data
- C. data dictionary
- D. meaningful data

View answer

Correct answer: (B)

data about data

268. 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

View answer

Correct answer: (C)

when data is handwritten by users and entered by an operator

269. 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

View answer

270. 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

View answer

Correct answer: (D)

includes all relevant characteristics of item being coded

271. In significant codes some or all parts of the code

- A. are meaningful
- B. are usable
- C. are significant
- D. represent values

View answer

Correct answer: (D)

represent values

272. Modulus-11 check digit for the code 45672 is

- A. 0
- B. 1
- C. 2
- D. 3

View answer

Correct answer: (B)

1

273. 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

View answer

Correct answer: (B)

i, ii, iv

274. 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

View answer

Correct answer: (C)

sequence number check

275. A data dictionary is usually developed

- A. At requirements specification phase
- B. During feasibility analysis
- C. When DFD is developed
- D. When a database is designed

View answer

Correct answer: (C)

When DFD is developed

276. 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
- D. includes all relevant characteristics of item being coded

View answer

Correct answer: (C)

can add new item easily

277. 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

View answer

Correct answer: (C)

ii and iii

278. 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

View answer

Correct answer: (B)

is of small length

279. 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

View answer

Correct answer: (B)

introducing redundant digits/characters designed to detect errors

280. 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

View answer

Correct answer: (C)

180

281. 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

View answer

Correct answer: (D)

i and iii

282. 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

View answer

Correct answer: (C)

i and ii

283. 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

View answer

Correct answer: (B)

10

284. 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

View answer

Correct answer: (B)

31

285. A data element in a data dictionary may have

- A. only integer value
- B. no value
- C. only real value
- D. only decimal value

View answer

Correct answer: (B)

no value

286. 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

View answer

Correct answer: (A)

enter new data

287. A concise code is necessarily

- A. precise
- B. meaningful
- C. comprehensive
- D. difficult

View answer

Correct answer: (A)

precise

288. A modulus-17 check will detect single transcription errors in

- A. alphanumeric codes
- B. hexadecimal codes
- C. decimal numerical codes
- D. serial number codes

View answer

Correct answer: (B)

hexadecimal codes

289. 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

View answer

Correct answer: (B)

0 to 100

290. 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

View answer

Correct answer: (C)

8 to 20

291. 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)

View answer

Correct answer: (C)

(i),(ii),(iii)

292. 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

View answer

Correct answer: (B)

add/delete data

293. 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

View answer

Correct answer: (C)

ii, iii and iv

294. Modulus-11 check digit for the code 85672 is

- A. 0
- B. 1
- C. X
- D. 3

View answer

Correct answer: (C)

X

295. 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

View answer

Correct answer: (C)

1 to 12

296. 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

View answer

Correct answer: (A)

i, ii, iii

297. 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

View answer

Correct answer: (D)

i and iii

298. 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

View answer

Correct answer: (C)

statistics of errors normally committed during data entry

299. 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

View answer

Correct answer: (C)

i, ii, iii, iv

300. 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

View answer

Correct answer: (D)

weights should all be > 0 and distinct

301. An entity is

- A. a collection of items in an application
- B. a distinct real world item in an application
- C. an inanimate object in an application
- D. a data structure

View answer

Correct answer: (B)

a distinct real world item in an application

302. In an E-R diagram entities are represented by

- A. circles
- B. rectangles
- C. diamond shaped box
- D. ellipse

View answer

Correct answer: (B)

rectangles

303. A student can take not more than 5 subjects in a semester. The number of students allowed in a subject in a semester is not more than 40. The student - subject relationship is:

- A. 5:40
- B. 40:5
- C. N:5
- D. 40:M

View answer

Correct answer: (B)

40:5

304. The relation given in Exercise 10.4.4 may be converted to 1 NF relation by

- A. eliminating composite attributes
- B. eliminating common attributes
- C. duplicating common attributes as many times as lines in corresponding attributes
- D. putting composite attributes in a separate table

View answer

Correct answer: (C)

duplicating common attributes as many times as lines in corresponding attributes

305. Given the relation of Exercise 10.7.5 it is reduced to the following BCNF relation

- A. Supplier (s_ids, s_name)
Purchase (s_id, p_order, qty)
- B. Supplier (s_id, s_name)
Purchase (p_order, qty)
- C. Purchase (s_id, p_order)
Supplier (s_name, qty)
- D. Supplier (s_id, s_name, qty)
Purchase (s_id, p_order)

View answer

Correct answer: (A)

Supplier (s_ids, s_name) Purchase (s_id, p_order, qty)

306. The ORDER PLACED FOR relation in Mini-case example 1 has the composite key order no, item code because

- A. item code has a multivalued dependency with order no.
- B. the non-key attributes are dependent on the composite key order no, item code
- C. if order no is the only key we cannot find qty, ordered, price/unit, delivery time
- D. if item code is the only key we cannot find order no. uniquely

View answer

Correct answer: (A)

item code has a multivalued dependency with order no.

307. By data independence we mean application programs

- A. do not need data
- B. may be developed independent of data
- C. may be developed without knowing the organization of data
- D. may be developed with independent data

View answer

Correct answer: (C)

may be developed without knowing the organization of data

308. By data security in DBMS we mean

- A. preventing access to data
- B. allowing access to data only to authorized users

- C. preventing changing data
- D. introducing integrity constraints

View answer

Correct answer: (B)

allowing access to data only to authorized users

309. Designing physical model of DBMS requires information on

- i. data volume
- ii. frequency of access to data
- iii. programming language used
- iv. secondary memory characteristics

- A. i, ii
- B. i, ii, iii
- C. i, ii, iii, iv
- D. i, ii, iv

View answer

Correct answer: (D)

i, ii, iv

310. Pick entities from the following:

- i. vendor
- ii. student
- iii. attends
- iv. km/hour

- A. i, ii, iii
- B. i, ii, iv
- C. i and ii
- D. iii and iv

View answer

Correct answer: (C)

i and ii