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CS-13

003-003301

B. C. A. (Sem. III) (CBCS) Examination

December - 2011

CS-13 : Sys. Ada. & Design, S/W Eng. & MS-Access

Faculty Code : 003

Subject Code : 003301

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :**
- (1) Figures to the right indicate full marks of the question.
 - (2) Mark and state necessary assumption.
 - (3) Draw diagram wherever necessary.
 - (4) Write answers of all questions in main answer sheet.

1 Attempt all MCQ answer :

20

(13)

(1) The Command Center of Access File that appears when you create or open the MS Access Database File.

- (A) Database Window
- (B) Query Window
- (C) Design View Window
- (D) Switchboard

(2) In a Database Table, the category of Information is called _____

- (A) Tuple
- (B) Field
- (C) Record
- (D) All of above

- (3) This key uniquely identifies each record.
- (A) Primary Key
 - (B) Key Record
 - (C) Unique Key
 - (D) Field Name
- (4) It is an Association established between common
- (A) Line
 - (B) Relationship
 - (C) Primary Key
 - (D) Records
- (5) Microsoft Access is A
- (A) RDBMS
 - (B) OODBMS
 - (C) ORDBMS
 - (D) Network Database Model
- (6) DCL provides commands to perform actions like
- (A) Change the structure of tables
 - (B) Insert, Update or Delete Records and Data Values
 - (C) Authorizing Access and other control over database
 - (D) None of above
- (7) What is the Maximum Length a Text Field can be ?
- (A) 120
 - (B) 255
 - (C) 265
 - (D) 75
- (8) Which of the following is not a database object ?
- (A) Tables
 - (B) Queries
 - (C) Relationships
 - (D) Reports

- (9) What are the columns in a Microsoft Access Table called?
- (A) Rows
 - (B) Records
 - (C) Fields
 - (D) Columns
- (10) Which of the following is not a type of Microsoft Access Database Object ?
- (A) Table
 - (B) Form
 - (C) Worksheets
 - (D) Modules
- (11) Information is :
- (A) Data
 - (B) Processed Data
 - (C) Manipulated input
 - (D) Computer output
- (12) 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
- (13) For taking decisions data must be
- (A) Very accurate
 - (B) Massive
 - (C) Processed correctly
 - (D) Collected from diverse sources

(14) By metadata we mean

- (A) very large data
- (B) Data about data
- (C) Data dictionary
- (D) Meaningful data

(15) 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

(16) 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

(17) 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 assess the efficiency of the system.

- (18) 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
- (19) 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
- (20) 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

2 (a) Attempt any three :

- (i) What is DFD ? Explain with an example.
- (ii) What is UML ? Explain Active diagram.
- (iii) What is macro ?
- (iv) What is SQA ?
- (v) Explain Types of reports.
- (vi) Explain Input Validation Methods.

9 (5)

(b) Attempt any three :

- (i) Explain types of testing.
- (ii) List and explain the various fact finding techniques.
- (iii) Discuss Software Failures.
- (iv) What is SDLC ? Explain the phases of SDLC in detail.
- (v) List and explain the various coding techniques.
- (vi) List and explain the various levels of testing to be performed on new programs.

10 (2)

(c) Attempt any two :

- (i) What are the different system development strategies ? Explain prototype method in detail.
- (ii) List and explain the role of a system analyst.
- (iii) Discuss the Evolution of Software Engineering Discipline (with diagram)
- (iv) What is SDLC ? Explain the phases of SDLC in detail.
- (v) Explain primary keys, foreign key, composite key and candidate key.

6 (2)

3 (a) Attempt any three :

- (i) Explain Decision tree.
- (ii) Explain Decision Table.
- (iii) List and explain various Data Gathering techniques.
- (iv) Differentiate between Logical design and Physical Design.
- (v) Explain Object Naming Rules.
- (vi) Explain Switch Board.

9 (5)

(b) Attempt any three :

- (i) Explain Data Dictionary
- (ii) Explain Static Page and Dynamic page
- (iii) Explain Macro Error.

[Contd...]

- (iv) Describe the role of system administrator.
- (v) What is difference between system analysis and system design explains ?
- (vi) What is mean by scope of a system ? Explain with an example.

(c) Attempt any two :

10 (3)

- (i) Explain SE Process Model
- (ii) Explain system, subsystem, business system, information system
- (iii) Explain 4 P's and w⁵ HH principle
- (iv) Explain E.F. Codd rules.
- (v) Describe MS Access Data Types.