



RAAK

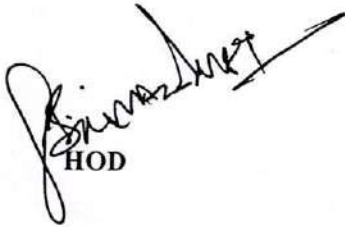
COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

VALUE ADDED COURSES
2019-2020

Department of Information Technology
19IT01- Business Intelligence and Analytics
MARK SHEET

Sl. No	Register Number	Student Name	Marks
1	17TH3101	S. JAYAVARTHINI	88
2	17TH3102	KEERTHANA R	84
3	17TH3103	PARAMESWARI V	96
4	17TH3104	SUCITHA E	88
5	17TH3105	YASMEEN S	82


HOD





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Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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Puducherry - 605 110



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VALUE ADDED COURSES

2019-2020

Department of Information Technology

19IT01 - Business Intelligence And Analytics

NAME :

CLASS :

DATE :

1. How many types of BI users are there?

A. 2

B. 3

C. 4

D. 5

Answer: C

2. Which of the following statements is true about Business Intelligence?

A. BI converts raw data into meaningful information.

B. BI impacts strategic, tactical, and operational business decisions.

C. BI tools perform data analysis and create reports, summaries, dashboards, maps, graphs, and charts.

D. All of the above.

Answer: D

3. KPI stands for?


A. Key Performance Indicators

B. Key Performance Identifier

C. Key Processes Identifier

D. Key Processes Indicators




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Answer: A

4. Which of the following does not form part of BI Stack in SQL Server?

- A. SSRS
- B. SSIS
- C. SSAS
- D. OBIEE

Answer: D

5. _____ is a category of applications and technologies for presenting and analyzing corporate and external data.

- A. MIS
- B. DIS
- C. EIS
- D. CIS

Answer: C

6. Which of the following areas are affected by BI?


- A. Revenue
- B. CRM
- C. Sales
- D. CPM

Answer: B

7. Business intelligence (BI) is a broad category of application programs which includes _____.

- A. Decision support
- B. Data Mining
- C. OLAP




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D. All of the above

Answer: D

8. _____ is a system where operations like data extraction, transformation and loading operations are executed.

A. Data staging

B. Data integration

C. ETL

D. None of the above

Answer: A

9. Business intelligence equips enterprises to gain business advantage from data.

A. TRUE

B. FALSE

C. Can be true or false

D. Cannot say

Answer: A

10. BI is a category of database software that provides an interface to help users quickly and interactively scrutinize the results in a variety of dimensions of the data.

A. TRUE

B. FALSE

C. Can be true or false

D. Cannot say


Answer: B

11. What does 'predictive analytics' refer to in BI?

A. Predicting market trends

B. Using historical data to predict future outcomes




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- C. Anticipating data storage needs
- D. Forecasting company turnover

Answer: B

12. What is 'self-service BI'?

- A. A system where IT professionals generate reports
- B. BI tools that are designed for setting up data warehouses
- C. BI tools and systems that enable end-users to analyze data themselves
- D. Outsourcing BI processes

Answer: C

13. What role does 'data quality' play in BI?

- A. Determines how much data can be stored
- B. Impacts the accuracy and effectiveness of the insights generated
- C. Influences the speed of data processing
- D. Affects the design of data visualizations

Answer: B

14. What is 'big data' in the context of Business Intelligence?

- A. Data that is too complex to process
- B. Large and complex data sets that traditional data processing software cannot deal with effectively
- C. Data related to big businesses
- D. The largest dataset a company has

Answer: B

15. Which technology is often associated with modern BI tools for faster analysis?

- A. Blockchain
- B. In-memory computing



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C. Quantum computing

D. Virtual reality

Answer: B

16. What is 'ETL' in Business Intelligence?

A. Encrypt-Transfer-Load

B. Extract-Transform-Load

C. Export-Track-Log

D. Evaluate-Translate-Learn

Answer: B

17. What is a 'BI portal'?

A. A type of data visualization

B. A central access point for BI tools and information

C. A method for securing BI data

D. A type of database used in BI

Answer: B

18. How does 'real-time BI' differ from traditional BI?

A. It focuses on historical data analysis

B. It provides analysis and reporting on data in real-time

C. It uses only qualitative data

D. It is used exclusively for financial reporting

Answer: B

19. What is 'business analytics'?

A. The process of selling products online

B. The practice of iterative exploration and analysis of past business performance



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- C. The technology used for creating business reports
- D. The study of business laws

Answer: B

20. What is a 'data mart'?

- A. Software for visualizing data
- B. A marketplace for buying and selling data
- C. A subset of a data warehouse focused on a specific area
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Answer: C

21. Which of the following is not a benefit of BI?

- A. Improved decision making
- B. Enhanced data quality
- C. Decreased IT dependency
- D. Increased data complexity

Answer: D

22. What is the primary objective of BI?

- A. Data storage
- B. Data analysis
- C. Data transformation
- D. Data warehousing

Answer: B

23. Which of the following is a key component of BI architecture?

- A. Data sources
- B. Data integration
- C. Data visualization




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D. All of the above

Answer: D

24. What does OLAP stand for?

A. Online Analytical Processing

B. Online Automated Processing

C. Offline Analytical Processing

D. Offline Automated Processing

Answer: A

25. What is the role of a 'data warehouse' in BI?

A. To store large volumes of data

B. To provide an environment for data analysis

C. To facilitate data integration

D. All of the above

Answer: D

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NAME : S. JAYAVARTHAN

CLASS : III/IT

DATE : 20-8-2019

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22
25

88%

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C. ETL

D. None of the above

9. Business intelligence equips enterprises to gain business advantage from data.

A. TRUE

~~B. FALSE~~

C. Can be true or false

D. Cannot say

X

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A. TRUE

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Certificate of Completion

2019-2020

This is to certify that Mr/Ms PARAMESWARI V

Year. III Department. IT has successfully Completed the Value added course.

SCORE: 96

COURSE

TITLE: BUSINESS INTELLIGENCE & ANALYTICS

COURSE

DURATION: (09-08-2019 to 14-08-2019)

Priva Pandey
HOD

[Signature]
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VALUE ADDED COURSES

2019-2020

Department of Information Technology

19IT02- Data Modeling and Simulation

MARK SHEET

Sl. No	Register Number	Student Name	Marks
1	18TH1002	S.BALASUBRAMANIAN	88
2	18TH1003	R.DEEPIKA	96
3	18TH1004	R.DIVYA	84
4	18TH1005	J. KALAIVANI	92
5	18TH1006	K. KANIMOZHI	96
6	18TH1008	A. MANIKANDAN	88
7	18TH1009	S.MANJU	96
8	18TH1010	S.MOHAMED SHAFEE	84
9	18TH1012	K.MUGUNDHAN	92
10	18TH1014	R.RANJITH	96
11	18TH1015	S. SANTHIYA	88
12	18TH1017	P. THAMIZHARASAN	96
13	18TH1019	A. VISHNUPRIYA	84


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Department of Information Technology

19IT02 - Data Modeling and Simulation

NAME :

CLASS :

DATE :

1. ____ Data refers to describing the data description, representing data semantics, and describing the consistency constraints that apply to the data.

- A. Adding
- B. Modifying
- C. Modeling
- D. Refining

Answer: C) Modeling

2. How many types of data models are there?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: D) 4

3. Which of the following is not the type of the data model?

- A. Relational Data Model
- B. Semi-structured data Model
- C. Entity-Relationship Model
- D. Process-based Data Model

Answer: D) Process-based Data Model

4. What is statement explains the Relational Data Model?

- A. Within a table, rows and columns are used to arrange the data.
- B. As data, objects, and relationships among them are represented logically in this model.
- C. Functions, encapsulation, and object identity are also considered in addition to the ER model.



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- D. These data models facilitate data specifications where different attributes are defined for the same data items of the same type.

Answer: A) Within a table, rows and columns are used to arrange the data

5. What is TRUE about Relational Data Model?

- A. Tables are used in relational models to represent data and the relationships between them.
- B. Edgar F. Codd presented this model in 1969.
- C. Most commercial data processing applications use the relational data model.
- D. All of the above

Answer: D) All of the above

6. As data objects and relationships among them are represented logically in an _____.

- A. Relational Data Model
- B. ER Model
- C. Object-based Model
- D. Semi-structured Data Model

Answer: B) ER Model

7. In an ER Model, what are objects also known as?

- A. Entity
- B. Relationship
- C. Bond
- D. Joint

Answer: D) Joint

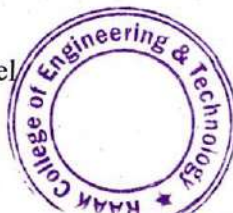
8. _____ are collections of similar types of entities.

- A. Relationship Set
- B. Entity Set
- C. ER Set
- D. None of the above

Answer: B) Entity Set

9. Which type of data model is an extension of ER Model?

- A. Relational Data Model
- B. Object-based Data Model
- C. Structured Data Model
- D. Semi-structured Data Model



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Answer: B) Object-based Data Model

10. What does object refer to in an Object-based data model?

- A. Data carrying its properties
- B. Objects carrying its properties
- C. Relations carrying its properties
- D. Models carrying its properties

Answer: A) Data carrying its properties

11. Data specifications can be specified when the same-type data items have different attributes, as in a ____ model.

- A. Relational Data Model
- B. Object-based Data Model
- C. ER Model
- D. Semi-structured Data Model

Answer: D) Semi-structured Data Model

12. In many cases, semi-structured data is represented using ____.

- A. Extensible Markup Language
- B. Extension Markup Language
- C. Extra Markup Language
- D. Extract Markup Language

Answer: A) Extensible Markup Language

13. Instance and Schemas are part of the –

- A. Data Definition
- B. Data Manipulation
- C. Data Models
- D. Data Redundancy

Answer: C) Data Models

14. A/An _____ of a database is the data in it at a specific moment in time.

- A. Schema
- B. Instance
- C. Instant
- D. Scheme

Answer: B) Instance




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15. The _____ of a database describes its overall structure.

- A. Schema
- B. Instance
- C. Design
- D. Structure

Answer: A) Schema

16. Data schemas represent the skeleton structure of a database. They represent the ___ of the database as a whole.

- A. Analytical View
- B. Logical View
- C. Semantic View
- D. Practical View

Answer: B) Logical View

17. What type of schema objects are there in schema?

- A. Primary Key
- B. Foreign Key
- C. Views
- D. All of the above

Answer: D) All of the above

18. What is the process of database creation known as?

- A. Data Creation
- B. Data Processing
- C. Data Modelling
- D. Data Defining

Answer: C) Data Modelling

19. Which aspect of schema can be displayed in schema diagram?

- A. Record Type
- B. Data Type
- C. Constraints
- D. All of the above

Answer: D) All of the above

20. ___ are designed by database designers to facilitate communications between the database and the software.



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- A. Database Instances
- B. Database Schemas
- C. Database Roles
- D. Database Structure

Answer: B) Database Schemas

21. _____ diagrams can be used to represent database schemas.

- A. Visual
- B. Logical
- C. Analytical
- D. Structural

Answer: A) Visual

22. Objects and relationships between _____ are shown through the visual diagrams.

- A. Tables
- B. Rows
- C. Columns
- D. Databases

Answer: D) Databases

23. What is the primary goal of data modeling in data science?

- To collect raw data
- To predict future data
- To represent and understand data
- To clean and preprocess data

Answer: C). To represent and understand data

24. In data modeling, what does an Entity-Relationship Diagram (ERD) represent?

- A. Data Dictionary
- B. Data Flow Diagram
- C. Entity-Relationship Diagram
- D. Data Cube

Answer: C). Entity-Relationship Diagram

A handwritten signature in blue ink, appearing to read 'S. Seenuvasamurthi'.

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25. What process transforms raw data into a structured format suitable for analysis?

- A. Data Aggregation
- B. Data Wrangling
- C. Data Imputation
- D. Data Integration

Answer: B). Data Wrangling



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- B. As data, objects, and relationships among them are represented logically in this model.
- C. Functions, encapsulation, and object identity are also considered in addition to the ER model.
- D. These data models facilitate data specifications where different attributes are defined for the same data items of the same type.



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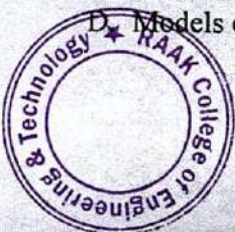


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5. What is TRUE about Relational Data Model?
- A. Tables are used in relational models to represent data and the relationships between them.
 - B. Edgar F. Codd presented this model in 1969.
 - C. Most commercial data processing applications use the relational data model.
 - D. All of the above
6. As data objects and relationships among them are represented logically in an _____.
- A. Relational Data Model
 - B. ER Model
 - C. Object-based Model
 - D. Semi-structured Data Model
7. In an ER Model, what are objects also known as?
- A. Entity
 - B. Relationship
 - C. Bond
 - D. Joint
8. _____ are collections of similar types of entities.
- A. Relationship Set
 - B. Entity Set
 - C. ER Set
 - D. None of the above
9. Which type of data model is an extension of ER Model?
- A. Relational Data Model
 - B. Object-based Data Model
 - C. Structured Data Model
 - D. Semi-structured Data Model
10. What does object refer to in an Object-based data model?
- A. Data carrying its properties
 - B. Objects carrying its properties
 - C. Relations carrying its properties
 - D. Models carrying its properties




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11. Data specifications can be specified when the same-type data items have different attributes, as in a _____ model.

- A. Relational Data Model
- B. Object-based Data Model
- C. ER Model
- D. Semi-structured Data Model

12. In many cases, semi-structured data is represented using _____.

- A. Extensible Markup Language
- B. Extension Markup Language
- C. Extra Markup Language
- D. Extract Markup Language

13. Instance and Schemas are part of the -

- A. Data Definition
- B. Data Manipulation
- C. Data Models
- D. Data Redundancy

14. A/An _____ of a database is the data in it at a specific moment in time.

- A. Schema
- B. Instance
- C. Instant
- D. Scheme

15. The _____ of a database describes its overall structure.

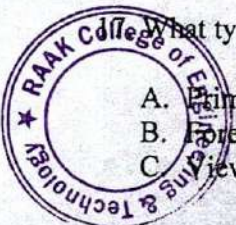
- A. Schema
- B. Instance
- C. Design
- D. Structure


16. Data schemas represent the skeleton structure of a database. They represent the _____ of the database as a whole.

- A. Analytical View
- B. Logical View
- C. Semantic View
- D. Practical View

17. What type of schema objects are there in schema?

- A. Primary Key
- B. Foreign Key
- C. Views




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D. All of the above

18. What is the process of database creation known as?

- A. Data Creation
- B. Data Processing
- C. Data Modelling
- D. Data Defining

19. Which aspect of schema can be displayed in schema diagram?

- A. Record Type
- B. Data Type
- C. Constraints
- D. All of the above

20. ____ are designed by database designers to facilitate communications between the database and the software.

- A. Database Instances
- B. Database Schemas
- C. Database Roles
- D. Database Structure

21. ____ diagrams can be used to represent database schemas.

- A. Visual
- B. Logical
- C. Analytical
- D. Structural

22. Objects and relationships between ____ are shown through the visual diagrams.

- A. Tables
- B. Rows
- C. Columns
- D. Databases

23. What is the primary goal of data modeling in data science?

To collect raw data

To predict future data

To represent and understand data

To clean and preprocess data


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24. In data modeling, what does an Entity-Relationship Diagram (ERD) represent?

- A. Data Dictionary
- B. Data Flow Diagram
- C. Entity-Relationship Diagram
- D. Data Cube

25. What process transforms raw data into a structured format suitable for analysis?

- A. Data Aggregation
- B. Data Wrangling
- C. Data Imputation
- D. Data Integration




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Certificate of Completion

2019-2020

This is to certify that Mr/Ms **RANJITH R**

Year.....II..... Department.....IT..... has successfully Completed the Value added course.

SCORE: **96**

COURSE

TITLE: **DATA MODELING & SIMULATION**

COURSE

DURATION: **(9-8-19 to 13-8-19)**

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