

Total No. of Questions : 3]

SEAT No. :

PD-1412

[Total No. of Pages : 3

[6440]-702

T.Y.B.B.A.

**502 : DATA BASE ADMINISTRATION AND DATA MINING
(2019 Pattern) (Semester - V)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer all questions.*
- 2) Figures to the right indicate full marks.*

Q1) A) Multiple choice questions :

[5]

- i) Which of the following is a primary function of DBMS?
 - a) Sorting and retrieving data
 - b) Formatting documents
 - c) Managing the operating system
 - d) None of above
- ii) ACID properties are related to which aspects of database?
 - a) Security
 - b) Transaction management
 - c) Data warehousing
 - d) Cloud computing
- iii) Which of the following best describes data warehousing?
 - a) Real time data processing
 - b) Collection and storage of large volumes of data analysis.
 - c) A software tool for database design
 - d) A physical storage device

P.T.O.

- iv) Predictive Analytics is used for _____
 - a) Summarizing past data
 - b) Identifying future trends based on historical data
 - c) Cleaning database records
 - d) Managing user permissions
- v) Cloud computing provides which of the following benefits?
 - a) Higher cost and complex infrastructure
 - b) Scalability and on-demand computing resources
 - c) Requires physical storage devices at every location
 - d) Cannot be used for database storage

B) Match the pairs:

[5]

- | Group A | Group B |
|-----------------------------|---|
| i) DBMS | a) Used for storing and Managing Data |
| ii) Data Mining | b) Helps in extracting patterns from data |
| iii) Transaction Management | c) Ensures data integrity and security |
| iv) ACID properties | d) Atomicity, Consistency, Isolation Duration |
| v) Cloud computing | e) Provides Flexible, scalable storage solutions. |

C) Answer in one sentence :

[5]

- a) Define DBMS.
- b) What is role of a database administrator?
- c) What do you mean by Data warehousing?
- d) Name any two types of Data Analytics.
- e) What is the significance of ACID properties in data base management?

- D) Fill in the Blanks: [5]
- a) _____ ensures that a transaction is either fully completed or not executed at all.
 - b) The purpose of data warehouse is storage and analyse _____.
 - c) _____ is process of extracting useful patterns from large datasets.
 - d) In cloud computing, users can access resources _____.
 - e) _____ Analytics is used to suggest the best course of Action based on data.

Q2) Solve any (three) 3 out of 5 : [3 × 10 = 30]

- a) Explain advantages and disadvantages of database system.
- b) Describe the concept of data ware housing and its applications.
- c) What are the database models? Explain the categories of database models.
- d) Explain the cloud computing in details and its impact on database management.
- e) Discuss the different types of data analytics and their business relevance.

Q3) Solve any 4 out of 6 : [4 × 5 = 20]

- a) Purpose of database administration.
- b) Application of data mining.
- c) Concept of transaction Management.
- d) Limitations of cloud computing.
- e) Business Relevance of Data Analytics.
- f) OLAP.

