(Time: 3 hours)

[Total Marks: 75]

Please check that you have got the correct question paper.

N. B.: (1) **All** questions are **compulsory**.

(2) Make **suitable assumptions** wherever necessary and **state the assumptions** made.

(3) Answers to the **same question** must be **written together**.

(4) Numbers to the **right** indicate **marks**.

(5) Draw **neat labeled diagrams** wherever **necessary**.

(6) Use of **Non-programmable** calculators is **allowed**.

SECTION – I

1.

a. What is meta data and explain its significance? **7**

b. Explain the Dimensional nature of business data. **6**

OR

1.

a. Explain the data design phase of a Data warehouse **7**

b. Explain in detail the concept of Information Package along with suitable example. **6**

2.

a. Explain characteristics of Fact table and dimension table. **7**

b. Distinguish between ROLAP vs MOLAP **6**

OR

2.

a. What is a Decision tree? Explain in detail **7**

b. Define clustering and explain what is meant by unsupervised learning. **6**

3.

a. What is Web Mining? **6**

b. Data generalization and summarization based characterization **6**

OR

3.

a. Define the following : a. Mean b. Median c. Mode **6**

b. Explain the concept of Genetic algorithms in detail **6**

[TURN OVER]

SECTION II

4.		
a.	Explain characteristics of Specialization and Generalization.	**7**
b.	Explain the concept of weak entity sets.	**6**
	OR	
4.		
a.	Explain the concept of versions & configurations.	**7**
b.	Write short note on the concept of complex objects.	**6**
5.		
a.	Compare of OODBMS, RDBMS, ORDBMS.	**6**
b.	Define Distributed databases. List and explain its types.	**6**
	OR	
5.		
a.	Explain the Primary Site method of Distributed Concurrency Control.	**6**
b.	Write short note on Deductive Databases.	**6**
6.		
a.	Write a short on indexing techniques for text data.	**6**
b.	Explain Semi structured data model and its implementation issues.	**6**
	OR	
6.		**6**
a.	Write short note on Mobile Databases and Temporal databases.	**6**
b.	Explain the concept of XML DTD.	
