

Code No.: DS514PE

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III-B.TECH-I-Semester End Examinations (Supply) - June- 2024
INTELLIGENT DATABASE SYSTEMS
(CSD)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks.

PART-A

(20 Marks)

1. a) Define Intelligent database system. [2M]
- b) What is relational data model? [2M]
- c) What is semantic model? [2M]
- d) Define polymorphism. [2M]
- e) List out characteristics of knowledge based systems. [2M]
- f) Name object database technologies. [2M]
- g) What are knowledge representation forms? [2M]
- h) What is CYC theory in knowledge representation? [2M]
- i) List out data mining tools. [2M]
- j) Define Ontology. [2M]

PART-B

(50 Marks)

2. Write about guidelines for using intelligent database systems. [10M]
- OR**
3. Discuss relational data models with examples. [10M]
4. Prepare an example showing the Active rules using statement-level semantics in STARBURST notation. [10M]
- OR**
5. Explain object oriented approaches to semantic data modeling. [10M]
6. Discover the use of Deductive Database. [10M]
- OR**
7. Demonstrate the syntax and semantics of Data log languages. [10M]
8. Discuss components of Knowledge Based Systems. [10M]
- OR**
9. Elaborate on tight coupling approach. [10M]
10. Discuss about temporal data models. [10M]
- OR**
11. Elaborate on multi agent systems. [10M]
