

DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY B.TECH. SEMESTER VII IT

SUBJECT: (IT-704) Data Analysis & Information Extraction

INSTRUCTIONS:

- 1. Figures to the right indicate maximum marks for that question.
- 2. The symbols used carry their usual meanings.
- 3. Assume suitable data, if required & mention them clearly.
- 4. Draw neat sketches wherever necessary.

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| Q.1 | (a) (b) (c) (d) (e) (f) | Explain the difference between data and information. Define the term measure in data mining? Also mention various types. Explain what is entity identification problem. Also give an appropriate example. What is the histogram analysis? Also mention the different rules in brief. State which architecture of data mining system is most popular and why? Define the following terms: 1)Utility, 2)Certainty. | [12] [2] [2] [2] [2] [2] [2] |
| Q.2 | Attempt <i>Any Two</i> from the following questions. | | [12] |
| | (a) | | |
| | (b) | · | [6] |
| | (c) | Explain the concept hierarchy and where it is used? Give an appropriate example. | [6] |
| Q.3 | (a) | What is a data mining primitive. Explain the various types of data mining primitives. | [6] |
| | (b) | Why do we use Sampling technique? Explain Sampling technique in details. OR | [6] |
| Q.3 | (a) | Explain what is data transformation and define various methods for data normalization. | [6] |
| | (b) | | |