SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY::PUTTUR
(AUTONOMOUS)
QUESTION BANK (DESCRIPTIVE)

Subject with Code: Data Preparation and Analysis (19CS5017) Course & Branch: M.Tech - CSE

Year & Sem: I M.Tech & II Sem **Regulation:** R19

Essay Answer (12 Mark) Questions

UNIT –I

1. Explain the concept of Data Gathering and Preparation. 12M
2. a) Discuss about Data formats 6 M
   b) Describe the concept of Parsing. 5M
3. Explain about Data transformation techniques. 12M
4. a) What are the Scalability issues in data preparation? Explain. 6 M
   b) Discuss about Data preparation. 6 M
5. Briefly Explain about real time issues in data gathering and preparation 12M
6. Describe the process of preparing the data tables. 12M
7. a) Write the overview of preparing data tables. 6M
   b) Explain about cleaning the data. 6M
8. Explain the concept of Generating Consistent Scales across Variables. 12 M
9. Discuss in detail about the process of converting text to numbers. 12M
10. a) Describe about Converting Continuous Data to Categories. 6M
    b) Explain the concept of combining the variables. 6M

UNIT –II

1. Discuss in Detail about Data cleaning 12M
2. a) What is the need of data cleaning? Explain 6 M
   b) Discuss about Consistency checking. 6M
3. How to clean the Heterogeneous data? Explain 12M
4 a) What are the data cleaning methods? Discuss. 6M
. b) Explain about any two data cleaning methods. 5M
5. How to deal with the missing data in data cleaning process? Explain. 12 M
6. What is Data transformation? Explain with an example. 12M
7. a) Discuss about Data segmentation 6M
   b) How the data transformation can be done? Discuss. 6M
8. Explain in detail about Data transformation methods with examples. 12M
9. Discuss about Segmentation in Data analysis. 12M
10. Explain the following.
   a) Data transformation 6 M
   b) Data Segmentation 6 M

UNIT –III

1. Discuss about Descriptive Statistics in exploratory analysis. 12M
2. a) Describe Comparative statistics 6M

   b) What is exploratory analysis? Explain. 6M

3. Explain in detail about Comparative Statistics in Exploratory analysis. 12 M

4. a) What are the key properties of a data set. 6M

   b) Discuss about EDA. 5M

5. a) What is the role of exploratory graphs in data analysis? 6M

   b) Does the data have outliers? Explain. 6M

6. Explain in detail about Clustering concept. 12M

7. a) Define clustering? Give one example 6M

   b) Discuss about K-means clustering 6 M

8. Write in detail about Association in data mining process. 12M

9. Explain about Hypothesis generation in Data mining. 12M

10. Discuss about any two algorithms in Data clustering. 12M

UNIT –IV

1. Explain in detail about Visualization in data mining. 12M

2. a) Discuss about Visualization. 6M

   b) Write about examples of Visualization. 6 M

3. Discuss about Data visualization examples on Location Data. 12M

4. What is Data visualization? Explain 12M

5. a) Describe about Data visualization with an example on Map data. 6M

   b) Explain the informational visualization. 6M

6. How to Visualize similarities between social network groups using multidimensional scaling (MDS) 12M

7. What is Visualization in Time series Data? Explain. 12M

8. a) Discuss about Temporal visualization with an example. 6M

   b) Compare Visualization on location data and time series data. 6M

9. Discuss about GIS Data Visualization. 12M

10. Describe with an example of Geolocated data visualization. 12M

UNIT –V

1. Write in detail about Visual Data mining. 12M

2. Discuss about different types of data visualization. 12M

3. a) Differentiate between correlation and simple linear regression. 6M

   b) What is the relation between data analysis and visualization? Explain. 6M

4. How to choose the right visualization for your data? Explain. 12M

5. a) Write one example on correlation of data visualization. 5M

   b) What is Data visualization? Explain. 6 M

6. What are the 5 steps in data visualization? Explain. 12M

7. a) What are the network connections? Explain 6M

   b) How effective is data visualization? Explain. 5M

8. What are the tools available to visualize network connections? Explain. 12 M

9. How to visualize hierarchical data with negative value? Explain. 12M

10. Explain about the benefits of interactive data visualization. 12M