

PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR

DEPARTMENT OF INFORMATION TECHNOLOGY

Session 2022-23 (EVEN SEM)

Question Bank

Subject:-Data Science

SEM: -VI SEM(open elective) A

Syllabus: - Unit1/2 III ,IV ,V

Subject code: - BEIT-605T.1

Name of Teacher:- Prof. Pankaj Borkar

Display Date:- / /2023

| Q. No. | Question Bank | Marks | CO |
|-----------------|--|--------------|-----------|
| Unit-III | | | |
| 1. | Illustrate numpy arrays | 7 | CO3 |
| 2. | Describe computation on arrays with an example | 7 | CO3 |
| 3. | Explain data manipulation with Pandas | 7 | CO3 |
| 4. | Summarize hierarchial indexing | 7 | CO3 |
| 5. | Write a note on combining datasets. | 7 | CO3 |
| Unit-IV | | | |
| 1. | Explain visualization with matplotlib | 6 | CO4 |
| 2. | Illustrate line plots | 6 | CO4 |
| 3. | Describe scatter plots | 6 | CO4 |
| 4. | Summarize density and contour plots. | 6 | CO4 |
| 5. | Describe three dimensional plotting | 7 | CO4 |
| 6. | Illustrate data analysis using stasmodel | 6 | CO4 |
| 7. | Write short note on plotly. | 7 | CO4 |
| 8. | Discuss interactive data visualization using bokeh | 7 | CO4 |
| 9. | Discuss data visualization with python seaborn | 4 | CO4 |
| 10. | Summarize data binning in python. | 4 | CO4 |
| Unit –V | | | |
| 1. | Describe Decision tree in detail | 7 | CO5 |
| 2 | Illustrate how does the decision tree work. | 7 | CO5 |

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| 3. | Illustrate steps for making decision tree | 7 | CO5 |
| 4 | Summarize Entropy | 7 | CO5 |
| 5 | Explain neural networks | 4 | CO5 |
| 6 | Dicuss Random forest. | 7 | CO5 |
| 7 | Summarize backpropogation | 7 | CO5 |
| 8 | Summarize Perceptrons | 7 | CO5 |
| 9 | Explain Key features of mapreduce | 7 | CO5 |
| 10 | Explain feedforward neural network | 7 | CO5 |

Prof. Pankaj Borkar

(Subject teacher)

Dr. P. M. Chaudhari

(H.O.D. IT)