

B.Sc. (Data Science) NEP - Semester-III  
**BSCDS033 - Fundamental in Data Science**

P. Pages : 1

Time : Three Hours



**GUG/W/24/16142**

Max. Marks : 40

- 
1. a) What is Data Science? Explain the concept with an example. 4  
b) Write down the steps of Data Science Process. 4
- OR**
- c) Explain Data Security Issues. 4  
d) What do you mean by “Data Discretization”? 4
2. a) Explain the concept “Artificial Intelligence” with an example. 4  
b) Described 8-puzzle problem of Production System. 4
- OR**
- c) Differentiate between Breadth first search and depth first search algorithm. 4  
d) Explain “Production system characteristics”. 4
3. a) Explain Hill climbing algorithm. 4  
b) Described Alpha-Beta pruning. 4
- OR**
- c) What do you mean by syntax & semantics in Propositional logic? 4  
d) Write down details about “Additional Refinements”. 4
4. a) Explain Data Mining with Example. 4  
b) Described Unsupervised and Reinforcement learning. 4
- OR**
- c) Write data management issues in data mining. 4  
d) Explain the difference between Prediction, Classification, and Clustering. 4
5. a) Explain in brief “Natural Language”. 2  
b) Write short note on “AI Technique”. 2  
c) Described in short Minimax algorithm. 2  
d) Explain in short Association rules of Mining. 2

\*\*\*\*\*