

TE SEM-VI INFT C-scheme May 1 2026
 Date: 18/05/2026
 Total Marks: 80

(3 hours)

- N.B. 1. Question No. 1 is compulsory
 2. Attempt any **three** questions from remaining five questions
 3. Assume suitable data if **necessary** and justify the assumptions
 4. Figures to the **right** indicate full marks

- Q1 **Solve any Four out of Five** 20
- A Explain Min Max algorithm with an example. 05
- B What is rational agent? Explain with diagram. 05
- C Compare Bar Graph and Histogram. 05
- D Describe the process of knowledge representation using First Order Logic. 05
- E What are the different issues in ML algorithms? 05
- Q2 A Elaborate in detail the steps in developing a Machine Learning Application. 10
- B Explain the Wumpus World Environment with a neat diagram. 10
- Q3 A Compare Data Science, Business Analytics, and Big Data with examples. 10
- B What are the different types of Machine Learning algorithms? Give example of each category. 10
- Q4 A Describe PEAS and also write down the PEAS descriptors for automated taxi drivers. 10
- B Differentiate between Forward chaining and Backward Chaining. 10
- Q5 A What do you mean by EDA? Explain various categorizations of EDA. 10
- B Explain the working of the Hill Climbing Algorithm. What are the issues in the Hill Climbing Algorithm? 10
- Q6 **Write short note on (Any Four)** 20
- a) Alpha Beta Pruning.
- b) Knowledge Based Agent.
- c) ANOVA.
- d) Comparison between Business Intelligence and Data Science
- e) Correlation and Covariance in EDA
