Atal Bihari Vajpayee Indian Institute of Information Technology & Management, Gwalior

IT304: Trustworthy Artificial Intelligence

Minor Examination (Session 2024–25)

Maximum Time: 1.5 Hours   **Max Marks: 25**

Note: Answer all questions in sequence. Use neat diagrams/examples wherever applicable.

1. Define ethical AI. How is it related to trustworthy AI?   (5 Marks)

2. Explain the concept of transparency in AI decision making. Give two real-world examples.   (5 Marks)

3. What is data privacy in AI? Discuss techniques to ensure privacy-preserving machine learning.   (5 Marks)

4. Discuss the importance of accountability in AI. How can audit trails help in accountability?   (5 Marks)

5. Write short notes on: (a) Human oversight in AI systems (b) Explainable AI (XAI) tools   (5 Marks)