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

IT009: Digital Watermarking

Minor Examination (Session 2024–25)

Maximum Time: 1.5 Hours

Note: Attempt all questions. Use neat sketches and mathematical expressions wherever necessary.

Max Marks: 25

- 1. Define robustness and imperceptibility in watermarking. Why is there a trade-off between the two? (5 Marks)
- Explain the Discrete Wavelet Transform (DWT) approach for embedding watermarks.
 Marks)
- 3. Differentiate between fragile watermarking and robust watermarking with real-life use cases. (5 Marks)
- 4. Explain the role of correlation in watermark detection. Provide a simple mathematical derivation. (5 Marks)
- 5. Write short notes on: (a) Digital Rights Management (DRM) (b) Forensic water-marking (5 Marks)