

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech. IV Year I Semester Regular Examinations February-2024
DIGITAL WATERMARKING

CSE (Internet of Things and Cyber security Including Block Chain Technology)

Time: 3 Hours

Max. Marks: 60

(Answer all Five Units $5 \times 12 = 60$ Marks)

UNIT-I

- 1 a Define Steganography. List out watermarking Applications.
 b Explain briefly importance of digital watermarking.

CO1 L1 6M
 CO1 L2 6M

OR

- 2 a Explain about history of watermarking.
 b Differentiate steganography and watermarking in detail.

CO1 L1 6M
 CO1 L2 6M

UNIT-II

- 3 a Define Informed Embedding. List and explain various methods used in informed embedding.
 b Explain briefly watermarking with blind embedders.

CO2 L2 6M
 CO2 L2 6M

OR

- 4 a Explain about Watermarking with informed embedding.
 b Differentiate informed embedding and informed coding in detail.

CO2 L2 6M
 CO2 L2 6M

UNIT-III

- 5 Define Fidelity and Quality type of perceptibility.

CO3 L1 12M

OR

- 6 a Describe General form of a perceptual model.
 b Explain about Perceptual Human Evaluation Measurement Techniques.

CO3 L2 6M
 CO3 L3 6M

UNIT-IV

- 7 Explain Security requirements in watermarking.

CO5 L2 12M

OR

- 8 a Describe Block-Wise Content Authentication.
 b Explain about Sample-Wise Content Authentication.

CO5 L2 6M
 CO5 L2 6M

UNIT-V

- 9 Explain Steganography communication in detail.

CO6 L2 12M

OR

- 10 a Describe Cachin's Definition of Steganographic Security.
 b Explain about Statistics Preserving Steganography.

CO6 L2 6M
 CO6 L2 6M

*** END ***

