B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

Sixth Semester

B.Sc Cyber Forensic Model III

CHOICE BASED CORE COURSE - CF6CBT03 - MULTIMEDIA SECURITY

2019 Admission Onwards

5F4D9536

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is Data Payload?

2. What is Blind Detection?

3. How do we securely transmit a message?

4. Explain Watermark Detector?

5. Write a short note on the abstract view of watermarking

6. Explain auxiliary information in watermarking

7. What is frame dropping?

8. Mention any form of audio watermarking technique

9. What is Blind Steganalysis?

10. What is image post processing?

11. Explain traitor tracing?

12. What is coalition tracing?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Compare overt and covert communication.

14. Write out the differences in watermarking and steganography.

15. Explain standard model of communication channel with encryption.

16. Briefly explain Watermarking System with informed Detector.

17. Briefly explain the embedding process of watermarking in binary images.

18. Distinguish between watermarking with blind embedder and informed embedder.

19. Describe digital video watermarking according to the type of carrier.

20. Importance of JPEG image compression.

21. Explain traitor tracing for pirate decode attack.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Discuss in detail the properties of Steganography.

23. Give a detailed note on geometric based model of watermarking.

24. Explain watermarking using Side Information.

25. Explain in detail the Digital Video Watermarking techniques.

(2×15=30)