Master of Technology
Second Semester Examination, June-2021
Cryptography and Network Security [MTCYS201]

<u>**Time: 3:00 Hrs**</u>   <u>**Max Marks 70**</u>

Note :   (i) Attempt any five questions.
(ii) All questions carry equal marks.

Q.1   What are the types of attacks on encrypted message?

Q.2   What is cryptanalysis and cryptography? How it is differentiated?

Q.3   What are the key principles of security? Define threat and attack?

Q.4   Distinguish active and passive attack with example.

Q.5   Compare stream cipher and block cipher with example.

Q.6   What are the two approaches to attacking a cipher? Explain any one in details?

Q.7   Write short notes on
(i) Security attacks
(ii) Security services

Q.8   Briefly explain the design principles of block cipher.

Master of Technology
Second Semester Examination, June-2021
Digital Forensic [MTCYS202]

Time: 3:00 Hrs   **Max Marks 70**

Note : (i) Attempt any five questions.
   (ii) All questions carry equal marks.

Q.1   How you will trace the crime which has been happened through email
       using tools

Q.2   How the Corporate investigation can be done in digital forensic area.

Q.3   What is Digital Forensic? What are the phases of digital forensic
       process?

Q.4   Explain Understanding Law enforcement agency investigations.

Q.5   Explain volatile data collection procedure for windows system.

Q.6   Write a short note on Windows registry.

Q.7   Write a short note on New Technology File System (NTFS).

Q.8   What is the Tool used in network forensic? Explain?

Master of Technology
Second Semester Examination, June-2021
Biometric Systems & Biometric Image Processing [MTCYS203]

Time: 3:00 Hrs   **Max Marks 70**

Note :   **(i) Attempt any five questions.**
             (ii) All questions carry equal marks.

Q.1   Write down the Characteristic and Benefits of Good biometric System.

Q.2   Describe all the process involved in Key biometric.

Q.3   Define the term biometric leading technologies. Describe any two briefly.

Q.4   What do you mean by image processing? Explain Spatial domain method.

Q.5   Explain briefly about frequency domain methods.

Q.6   Define term image segmentation. Explain pixel classification by Thresholding and histogram technique.

Q.7   Write short note on boundary tracking and laplacian edge detection.

Q.8   Write short note on
         (i) Head tilting problem in iris biometric
         (ii) Texture energy feature of iris biometric

Master of Technology
Second Semester Examination, June-2021
Computer Forensic Analysis & Investigation [MTCYS204]

Time: 3:00 Hrs   **Max Marks 70**

Note : (i) Attempt any five questions out of eight.
     (ii) All questions carry equal Marks.

Q.1   What is Computer Forensics means? Determine what data to collect and analyze in investigation?

Q.2   How the encrypted files are examined in computer forensic analysis?

Q.3   Why do we need to hiding the partitions? Give the reason?

Q.4   Write a short note on Remote Acquisition?

Q.5   How to recover graphic files by using different methods ?

Q.6   What is mean by steganography in graphics files? Explain by using steganalysis tools.

Q.7   How to repair damaged headers in graphic files?

Q.8   State the lossless and lossy compression in details?

Master of Technology
Second Semester Examination, June-2021
File System Forensics [MTCYS205]

Time: 3:00 Hrs   **Max Marks 70**

Note : (i) Attempt any five questions.
(ii) All questions carry equal marks.

Q.1   What do you mean by digital crime? What is the investigation process of it?

Q.2   What is the booting processing in forensic analysis?

Q.3   Write a short note on hard disk acquisition process?

Q.4   What are the major challenges in file system forensic?

Q.5   Explain foundation scene investigation process of file system forensic?

Q.6   What do you mean by volume analysis? Write the introductory methods?

Q.7   Explain the partitions technique in system?

Q.8   Describe the term RAID in disk volume in details?