

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEM-3024

M.Sc. (IIIrd Semester) Examination, 2022

CYBER SECURITY

Paper - MCSEC-301

(Cyber Forensics, Audit and Investigation)

Time : 3 Hours]

[Maximum Marks : 40

The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- The candidate is required to answer all the *ten* questions carries 1 mark each. The answer should not exceed **50** words.

Section-B

(Marks : 3 × 5 = 15)

Note :- The candidate is required to answer *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answer should not exceed **200** words.

Section-C

(Marks : 5 × 3 = 15)

Note :- The candidate is required to answer *three* questions by selecting *one* question from each Unit. Each question carries **5** marks. The answer should not exceed **500** words.

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SEM-3024 P.T.O.

Section–A

1. (i) Define CHS.
- (ii) Define MBR.
- (iii) What is the use of RAID ?
- (iv) What is EXT4 ?
- (v) Define Windows Artifacts.
- (vi) Define MRU.
- (vii) What is Memory Dumping ?
- (viii) What are Virtual Machines ?
- (ix) What is SOP for Investigation ?
- (x) Define CDR Analysis.

Section–B

Unit–I

2. Explain DOS partition table.
3. Explain Architecture of Extended File System.
4. Describe file system acquisition and recovery.

Unit–II

5. Explain network information used in Windows Forensic Analysis.
6. What is the role of windows Registry in Forensic ?
7. Describe Windows thumbnails.

Unit–III

8. Explain social media crime.
9. Explain Android File System.
10. Describe IT Governance.

Section–C

Unit–I

11. Describe NTFS file system architecture.
12. Compare Windows and Linux boot process.

Unit–II

13. Explain PDF structure and PDF analysis.
14. Explain the role of process information and service information in window forensic.

Unit–III

15. What is Cyber Crime Investigation ? Explain with the email investigation case scenarios.
16. Describe Internal Audit and IT Audit function.