

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SCYS-324

M.Sc. (Computer Science) (IIIrd Semester)
Examination, 2021

CYBER SECURITY

Paper - MCSEC-301

(Intrusion Detection and Prevention System)

Time : 1½ Hours]

[Maximum Marks : 40

Note :- The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions (Answer limit 50 words). Each question carries 1 mark.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer any *five* questions by selecting at least *one* question from each Unit (Answer limit 200 words). Each question carries 3 marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions by selecting *one* question from each Unit (Answer limit 500 words). Each question carries 5 marks.

Section-A

1 each

1. (i) What is an Intrusion Prevention System (IPS) ?
- (ii) What are the types of IDS ?

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- (iii) What do you mean by Anomaly Detection ?
- (iv) What is a Gateway ?
- (v) What is a Man-in the-Middle Attach ?
- (vi) What is a Threat Briefing ?
- (vii) What is a threat agent example ?
- (viii) Define Return on Investment (ROI).
- (ix) What is Cyber Crime ?
- (x) What is Legal Issues ?

Section-B

3 each

Unit-I

- 2. What do intrusion detection system detect in terms of misuse detection ?
- 3. Differentiate between detection and prevention systems.
- 4. Explain Hybrid detection methods with example.

Unit-II

- 5. What is the difference between Threat Brief and Quantifying Risk ?
- 6. How does intrusion detection in security work ? Give example.
- 7. Explain bro intrusion detection with an example.

Unit-III

- 8. What are the legal issues in Cyber Security ?
- 9. Define Cyber Forensics.
- 10. Is government organizations working for IDS ? If yes, then explain its objectives.

Section-C

5 each

Unit-I

- 11. Explain the architectures in detail :
 - (a) Centralized
 - (b) Distributed

12. What is Intruder in Cyber Security ? Explain two main types of intrusion detection systems.

Unit-II

13. In intrusion detection explain its tool selection and acquisition process.
14. How does short IPS work and also explain what attacks can short detect ?

Unit-III

15. What is Criminal Prosecutions ? And also explain the role of prosecutions.
16. Explain these terms in detail :
- (a) Organizations
 - (b) Standardizations