



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

Master's Degree Examination – June / July 2021

II Semester

Class : I PG
Major : Computer Science

Time : 3 Hours
Max. Marks: 100

20MCSC10 Cyber Security

Part A

10 x 1 = 10

Choose the Correct Answer

- Cybersecurity cannot be measured using
a. integrity of data
b. confidentiality of data
c. availability of data for authorized users
d. unavailability of data for authorized users
CO1K1
- _____ principle states that the security of a mechanism should not depend on the secrecy of its design or implementation.
a. least privilege
b. least common mechanism
c. open design
d. separation of privilege
CO1K1
- _____ is verifying the identity of the user to access data, resources or applications.
a. authentication
b. authorization
c. virtualization
d. normalization
CO2K2
- _____ refers to measuring unique characteristics such as retina, iris or fingerprints.
a. token
b. biometrics
c. transaction
d. out of band
CO2K2
- The methodologies designed and implemented to protect print, electronic or any form of confidential and sensitive information from unauthorized access is called _____.
a. information security
b. hacking
c. testing
d. forensic analysis
CO3K1
- _____ functions by overloading a network with one sided connection requests cause the network to crash.
a. data loss prevention
b. distributed denial of service
c. behavioral analytics
d. firewalls
CO3K2
- _____ is the set of systematic, analytical processes which provide timely information about crime patterns and crime trend correlations.
a. crime analysis
b. behavioral analysis
c. clustering analysis
d. integrity analysis
CO4K1
- The process in which the nature of a crime is used to make inferences about the personality and other characteristics of the likely offender is _____.
a. cyber profiling
b. integrity profiling
c. criminal profiling
d. crime profiling
CO4K1
- The intricate environment that involves interactions between people, software and services is _____.
a. criminal space
b. cyber security
c. criminal security
d. cyberspace
CO5K1
- Which one of the following is not a kind of intellectual property rights?
a. copyright
b. ecosystem
c. trademark
d. patent
CO5K1

Part - B **5 x 6 = 30**
Answer ALL questions
Each answer should not exceed 400 words or two pages

- 11.a. Identify the tools for integrity and explain their functions. CO1K2
(or)
- 11.b. Recommend the steps for performing vulnerability assessment. CO1K5
- 12.a. Compare and contrast the methods of authentication. CO2K4
(or)
- 12.b. Assess the risks of using block chain technology. CO2K5
- 13.a. Summarize the program threats and system threats in detail. CO3K5
(or)
- 13.b. Outline the benefits of cloud security. CO3K4
- 14.a. Recommend the ways to protect yourself against cybercrime. CO4K5
(or)
- 14.b. Discuss about incident handling in brief. CO4K2
- 15.a. Give the objectives of cyber law. CO5K1
(or)
- 15.b. Write short notes on Information Technology Act 2000 and its amendments. CO5K3

Part C **5 x 12 = 60**
Answer ALL questions
Each answer should not exceed 800 words or four pages

- 16.a. Describe the principles of cyber security in detail. CO1K1
(or)
- 16.b. Categorize the different types of attack on the computer system. CO1K4
- 17.a. Discuss in brief the different security models. CO2K2
(or)
- 17.b. What are the types of security audits available? Justify the need of IT security audits by the companies. CO2K1
- 18.a. Appraise the different types of network devices and tools in brief. CO3K5
(or)
- 18.b. Write down the ways by which E mail can be hacked. CO3K3
- 19.a. Discuss the branches of digital forensics in detail. CO4K2
(or)
- 19.b. Describe about the methods of criminal investigation. CO4K1
- 20.a. Explain in detail the cybercrimes and offences dealt with IPC. CO5K3
(or)
- 20.b. Analyze the cyber jurisdiction in India with examples. CO5K4
