

CBCS SCHEME

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BETCK105I/BETCKI105

First Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024

Introduction to Cyber Security

Time: 3 hrs.

Max. Marks: 100

- Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.
 2. VTU Formula Hand Book is permitted.
 3. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	Explain the classification of cyber crimes.	10	L2	CO1
	b.	Explain the following terms related to cyber crimes. i) Hacking ii) Spanning iii) Cyber stalking iv) Phishing v) Password sniffing.	10	L2	CO1

OR

Q.2	a.	Define cyber criminals. Explain the types of cybercriminals.	8	L2	CO1
	b.	Explain the legal and Indian perspectives of cyber crime.	6	L2	CO1
	c.	Explain any 6 important Indian IT Act 2000.	6	L2	CO1

Module – 2

Q.3	a.	Define Social Engineering. Explain the classification of Social Engineering.	10	L1	CO2
	b.	Define Cyber stalking and explain its types.	5	L1	CO2
	c.	Explain ports and ports scanning and mention any four well known ports.	5	L1	CO2

OR

Q.4	a.	Explain HOW Botnets can be used as a fuel to cyber crime with the help of a block diagram.	10	L2	CO2
	b.	Explain attack vector and the different attacks launched with attack vector.	10	L2	CO2

Module – 3

Q.5	a.	Explain Password Cracking. List 8 guidelines that needs to be followed to avoid password cracking.	10	L1	CO3
	b.	Define Keyloggers. Explain the types of keyloggers and mention the advantages of using antikey loggers.	10	L1	CO3

OR

Q.6	a.	Explain the DOS and DDOS attacks and how to protect from DOS and DDOS attacks.	10	L2	CO3
	b.	Explain the differences between virus, worms and Trojans with two examples each.	10	L2	CO3

Module - 4

Q.7	a.	Explain the phishing techniques used by the phishers to launch phishing attacks.	10	L1	CO4
	b.	Explain any 5 types of phishing scams used by phishers.	10	L1	CO4

OR

Q.8	a.	Explain the types of identity theft.	12	L1	CO4
	b.	Explain how to prevent being victim of identity theft.	8	L2	CO4

Module - 5

Q.9	a.	Define digital forensics and explain the role of digital forensics.	8	L1	CO5
	b.	What is the need for computer forensics?	6	L1	CO5
	c.	Explain the concept of chain of custody applied to digital forensics.	6	L2	CO5

OR

Q.10	a.	Explain the model for understanding a seizure and handling of forensics evidence legal framework with the help of a block diagram.	10	L2	CO5
	b.	Explain the guidelines used for the digital evidence collection phase.	10	L2	CO5