	U.S.N				
and the second se	P.E.S. College of Engineering, Mandya (An Autonomous Institution affiliated to VTU, Bell Seventh Semester, B.E Information Science and Semester End Examination; February - 2	<i>lagavi)</i>   Engin			
	Cyber Security				
Time: 、	• •		Mc	ıx. Ma	rks: 100
CO1: CO2: 1 CO3: 1 CO4: <u>CO5: 1</u> <u>Note</u> : 1	Course Outcomes udents will be able to: Explain the concepts of confidentiality, availability and integrity in Ing physical, software, devices, policies and people. Explaining important principles, and theories used throughout the field of of Applying knowledge in the field of cyber security to analyze real world pro Effectively integrating knowledge in the field of cyber security to pr problems. Identify the legal perspectives in cyber security and challenges to Indian la () PART - A is compulsory. Two marks for each question.	cyber sect blems. opose sc w.	urity. Hutions	to rec	al world
	) <b>PART - B</b> : Answer any <u><b>Two</b></u> sub questions (from a, b, c) for Maximum of		0		
Q. No.	Questions I : PART - A	Mark 10	s BLs	COs	POs
I a.	Define DOS and DDOS attack.	2	L1	CO1	PO1,2
b.	Define Techno-vandalism.	2	L1	CO2	PO1,2
c.	Define Backdoor.	2	L1	CO3	PO1,2,4
d.	Explain Whaling.	2	L2	CO4	PO1,2,4
e.	List two weak area of the ITA-2000.	2	L1	CO5	PO4,8,11
	II : PART - B	90			
1 a.	<b>UNIT - I</b> Explain cyber security strategy and policy.	<b>18</b> 9	L2	CO1	PO1,2
ь.	Describe the following with respect to cyber security policy:		22	001	101,2
01	i) Enterprise policy	9	L2	CO1	PO1,2
	ii)Technology operations		22	001	101,2
с.	Explain the cyber security counter measures.	9	L2	CO1	PO1,2
	UNIT - II	18		001	101,2
2 a.	Describe any nine cybercrimes that target organization.	9	L2	CO2	PO1,2
b.	Explain the different phases that are involved in planning cybercrimes.	g 9	L2	CO2	PO1,2
c.	Describe human based social engineering and computer based social engineering.	d 9	L2	CO2	PO1,2
	UNIT - III	18			
3 a.	Define virus and worm. Describe different types of viruses.	9	L1,2	CO3	PO1,2,4
b.	Explain buffer overflow and give example. Describe how buffe overflow can be minimized?	r 9	L2	CO3	PO1,2,4
с.	Explain key loggers and spywares.	9	L2	CO3	PO1,2,4
с.	Contd 2			205	I ♥1,2,T

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	UNIT - IV	18			
4 a.	Describe any nine types of phishing scams.	9	L2	CO4	PO1,2,4
b.	Define ID theft and explain human-based ID theft techniques.	9	L1,2	CO4	PO1,2,4
c.	Explain the following with respect to cyber governance issues:				
	i) Net Neutrality	9	L2	CO4	PO1,2,4
	ii) Internet names and numbers				
	UNIT - V	18			
5 a.	Why do we need cyber laws? Explain.	9	L2	CO5	PO4,8,1
b.	Explain the Indian IT ACT and the section that discuss cybercrimes in legal context.	9	L2	CO5	PO4,8,11
c.	Explain the challenges to Indian law and cybercrime scenario	9	L2	CO5	PO4,8,11

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