#### Program: Computer Engineering Curriculum Scheme: Rev2016 Examination: FinalYear Semester: VII

Course Code: CSDLO7031 Course Name :Adv. System Security and Digital Forensics Time: 2 hours 30 mins Max. Marks: 80

Q1. All questions compulsory 2 marks each (20 Marks)

Q1.	User works in a company and the company decides how data should be shared is type of access control mechanism
Option A:	MACs (Mandatory Access Control)
Option B:	RBACs (Role Based Access Control)
Option C:	LBACs (List Based Access Control)
Option D:	DACs (Discretionary Access Control)
Q2.	What is the Strong Star Property Rule in Bell-La –Padula (BLP) model?
Option A:	The subject with the same clearance as the object can read and write to the object.
Option B:	The object with the same clearance level as the subject can write to the subject.
Option C:	The subject cannot read to the object.
Option D:	The object cannot read or write to the subject
Q3.	This is not level in classification in BIBA/ BLP model
Option A:	Top Secret
Option B:	Secret
Option C:	Confidential
Option D:	Classified
Q4.	A type of the attack where state or condition is changed between the time the security was checked and the access of the resource is known as
Option A:	Linearization attack
Option B:	Covert Channel

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Race Conditions
Salami Attack
A type of the virus which changes its type and signature.
Non-resident virus
Boot Sector Virus
Polymorphic Virus
Memory Virus
Which of the following is not example of a web service security (WS-Sec) token
A Kerberos ticket
A signature algorithm
A username and password
An X.509 certificate
This is not the type of the file permission in Unix/ Linux system.
Owner Permission
Group Permission
Other permissions
User
Which types of VPNs are used for creating a virtual tunnel between an employee's device and the company's network?
Remote access VPNs
Site-to-site VPNs
Peer-to-Peer VPNs

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Option D:	Country-to-country VPNs	
Q9.	The MAC computed in UMTS is used to	
Option A:	Authenticate the base station to the SIM card	
Option B:	Authenticate the SIM card to the base station	
Option C:	Authenticate the MSC/HLR to the SIM card	
Option D:	Authenticate the SIM card to the MSC/HLR	
Q10.	What is called as the process of creation of a duplicate of digital media for purpose of examining it?	
Option A:	Acquisition	
Option B:	Steganography	
Option C:	Live analysis	
Option D:	Hashing.	

Q2. (20 Marks)	Solve any Two Questions out of Three 10	marks each
А	<ul><li>a. Explain access control policies in detail.</li><li>b. Describe the concepts of covert channel in detail.</li></ul>	05 marks 05 marks
В	Describe session hijacking in detail.	
С	Explain salami attack and linearization attack	

Q3. (20 Marks)	Solve any Two Questions out of Three 10 marks each
А	Explain bell-La Padula model with a neat diagram.
В	Write a short note on program and Operating System security.

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С	Explain possible attacks on wireless LAN in detail.
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Q4. (20 Marks)	Solve any Two Questions out of Three 10 marks each	
А	Explain incident response methodology with diagrams.	
В	Explain in details wireless security offered by 802.11 with neat diagram	
С	Describe copyrights and intellectual property in detail.	