Hall Ticket Number :										

R-19

Code: 19A55CT

III B.Tech. I Semester Supplementary Examinations Nov/Dec 2023

Cryptography and Network Security

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours

Answer *any five full questions* by choosing one question from each unit (5x14 = 70 Marks)

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Important Note: 1. On completing your answers. Compulsorily draw diagonal cross line on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 32+8=40, will be treated as malpractice.

			Marks	CO	BL
		UNIT–I			
1.	a)	What is the relation between security mechanisms and attacks? Explain.	7M	CO1	L2
	b)	List out standards in use or being developed for various aspects of cryptography and network security.	7M	CO1	L1
		OR			
2.		Explain about OSI Security architecture model with neat diagram	14M	CO1	L2
		UNIT–II			
3.		Draw the general structure of DES and explain the encryption decryption process	14M	CO2	L2
		OR			
4.	a)	Identify the possible threats for RSA algorithm and list their counter measures	7M	CO2	L1
	b)	Perform decryption and encryption using RSA algorithm with p=3, q=11, e=7 and N=5.	7M	CO2	L3
		UNIT–III			
5.		Describe the steps in message digest generation in Secure Hash Algorithm in detail.	14M	CO3	L2
		OR			
6.	a)	Summarize the Classes of message authentication function.	7M	CO3	
	b)	Explains in detail about X.509 certificates	7M	CO3	
		UNIT–IV			
7.	a)	Explain the operational description of PGP.	7M	CO4	L2
	b)	What are the key algorithms used in S/MIME?	7M	CO4	L2
		OR			
8.	a)	Write the steps involved in the simplified form of the SSL / TLS protocol.	7M	CO4	L2
	b)	Generalize the methodology involved in computing the keys in SSL / TLS protocol	7M	CO4	L2
		UNIT–V			
9.	a)	What are the different types of viruses? How do they get into the systems?	7M	CO5	L2
	b)	What is a firewall? What is the need for firewalls? What is the role of firewalls in protecting networks?	7M	CO5	L2
		OR			
10.	a)	Explain Unix Password management.	7M	CO5	L2
	b)	Explain Intrusion detection in detail	7M	CO5	L2

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Hall Ticket Number :										

R-19

Code: 19A551T

III B.Tech. I Semester Supplementary Examinations Nov/Dec 2023

Advanced Java Programming

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours

Answer *any five full questions* by choosing one question from each unit (5x14 = 70 Marks)

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			Marks	CO	BL
		UNIT–I			
1.		How can you create a sample JavaFX application.Explain the steps involved in development, compilation and running of a JavaFX application with an example program.	14M	1	2
		OR			
2.	a)	How can draw directly on a canvas. Write an example program.	7M	1	3
	b)	Create a JavaFX application with a Scene having Label and Button controls	7M	1	5
		UNIT–II			
3.		Discuss the following JavaFX controls. i) CheckBox ii) RadioButton iii) ToggleButton	14M	2	2
		OR			
4.	a)	Differentiate between ListView and ComboBox with an example program.	8M	2	4
	b)	How can you add image to Label. Explain with an example program.	6M	2	3
		UNIT–III			
5.	a)	How can you commit and rollback transactions from JDBC application. Explain with example.	7M	3	2
	b)	Explain the purpose of batch updates with an example program.	7M	3	2
		OR			
6.	a)	What is ResultSet? How can you insert rows through RseultSet. Explain with an example.	8M	3	3
	b)	Discuss the properties of ResultSet.	6M	3	2
		UNIT–IV			
7.	a)	How can you develop GenericServlet application? Explain with an example program?	10M	4	3
	b)	Differentiate between get request and post request.	4M	4	4
		OR			
8.	a)	Differentiate between GenericServlet and HttpServlet.	4M	4	4
	b)	Develop a HttpServlet application to read parameters from HTML form	10M	4	4
		UNIT–V			
9.	a)	What is JSP? How JSP application works?	7M	5	2
	b)	Explain JSP scripting elements with syntax.	7M	5	2
		OR			
10.		How can you use jsp:include and jsp:forward action tags.Demonstrate with an example program	14M	5	2

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