QP Code: RD17001041	Reg.						AR 17
	No						



(ii) Credit card payment

(iii) Electronic cash payments

GIET MAIN CAMPUS AUTONOMOUS GUNUPUR - 765022

B. Tech Degree Examinations, December - 2020 (Seventh Semester)

BCSPE 7034 / BITPE 7034 - CYRPTOGRAPHY AND NETWORK SECURITY

(CSE & IT)

Tim	e: 2 hrs	(332 3332)	Maximum: 50 Marks
	The figures in the ri	ight hand margin indicate marks	•
PA	RT – A: (Multiple Choice Questions)		$(1 \times 10 = 10 \text{ Marks})$
Q.1.	Answer ALL questions		
a.	If the sender and receiver use differe system	ent keys, the system is referred to	as conventional cipher
	(i)True	(ii)False	
b.	Monoalphabetic ciphers are stronger tougher on the former.	than Polyalphabetic ciphers because	se frequency analysis is
	(i)True	(ii)False	
c.	On Encrypting "cryptography" using get cipher text	Vignere Cipher System using the l	keyword "LUCKY" we
	(i) nlazeiibljji	(ii) nlazeiibljii	
	(iii) olaaeiibljki	(iv) mlaaeiibljki	
d.	Image obtained after steganography is	called	
	(i) Cover image	(ii) Stego-image	
	(iii) Steganalysis	(iv) None	
e.	In asymmetric key cryptography, the p	orivate key is kept by	
	(i) sender	(ii) receiver	
	(iii) sender and receiver	(iv)all the connected devices to t	he network
f.	Which one of the following algorithms	s is not used in asymmetric-key cry	ptography?
	(i) RSA algorithm	(ii) Diffie-hellman algorithm	
	(iii) Electronic Code Book algorithm	(iv) DSA algorithm	
g.	What is data encryption standard (DES	5)?	
	(i) block cipher	(ii) stream cipher	
	(iii) bit cipher	(iv) byte cipher	
h.	The DES Algorithm Cipher System co	onsists ofrounds (ite	rations) each with a
	(i)12	(ii)18	
	(iii)09	(iv)16	
i.	A computer is a malicious of	code which self-replicates by copyi	ing itself to other
	(i) program	(ii) virus	
	(iii) application	(iv) worm	
j.	The Secure Electronic Transaction pro	tocol is used for	

(ii) Cheque payment

(iv) Payments of small amount for internet services

PART – B: (Short Answer Questions)

 $(2 \times 5 = 10 \text{ Marks})$

Q.2. Answer ALL questions

- a. List and briefly define Attacks & Its categories of passive and active security attacks.
- b. What is the difference between a block cipher and a stream cipher?
- c. Explain Double DES and Triple DES structure?
- d. Explain Host-Based Intrusion Detection system?
- e. Explain briefly about Features of IP Security?

PART – C: (Long Answer Questions)

 $(6 \times 5 = 30 \text{ Marks})$

<u>Ar</u>	ısw	er ANY FIVE questions	Marks
	3.	Briefly Explain about Security Services and Mechanisms?	7
	4.	Plaintext- INSTRUMENTS, Keyword- MONARCHY, Generate Cipher text using Play fair Cipher Model?	10
	5.	Write short notes on Chinese Remainder theorem with examples?	8
	6.	Draw the general structure of DES and explain the encryption/ decryption process?	7
	7.	Explain RSA Encryption technique with Example?	7
	8.	Differentiate MD5 & SHA Hash Algorithm?	8
	9.	Explain PGP method in Electronic Mail system?	7
1	0.	Explain Transport Layer protocol in Web security?	8

--- End of Paper ---