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Roll No. :

322734(22)

B. E. (Seventh Semester) Examination, April-May 2021

(New Scheme)

(CSE, IT Engg. Branch)

CRYPTOGRAPHY and NETWORK SECURITY

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and containing 2 marks. Attempt two parts from (b), (c) and (d) and each part carries 7 marks

- 1. (a) What is Rotor machine?
 - (b) Explain play fair cipher with example. 7

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	(c)	Explain the classic techniques of cryptography.	7
	(d)	What is DES? Also explained DES strength?	7
2.	(a)	What is modular arithmetic?	2
	(b)	What is RC4? Explain it with a suitable example.	7
	(c)	What is AES? How it is better than DES give reasons?	7
	(d)	Explain groups, rings and fields.	7
3.	(a)	Explain Fermat's theorem.	2
	(b)	How RSA works? Explain with example.	7
	(c)	What is the concept of Diffie Hellmen Key Exchange? Explain.	7
	(d)	What do you mean by Eliptic Curve Cryptography?	7
4.	(a)	What is Hash function?	2
	(b)	What is the full form of SHA? Explain its security concept.	7
	(c)	How Digital Signature work? Explain.	7
	(d)	Explain CMAC allow radge not yallo analysed allo	7

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(a)	What do you mean by Web Security?	2
(b)	Explain Kerberos in detail.	7
(c)	What are SSL and TLS? Which one is best and why?	7
(d)	What is fire wall? Explain the types of fire wall.	7