Diwaliba Polytechnic, Mahuva

Subject: INFORMATION SEQURITY Date: 14/08/2024

Course: Diploma CE Semester: 5

Faculty Name: JUHITA THAKOR

Syllabus of Mid-I examination

Unit - I

Introduction to Information Security:

- Basic concepts of information security,
- The OSI security architecture,
- Security attacks,
- Security services,
- Security mechanisms,
- Model for network security.

Unit - II

Encryption Techniques:

- Symmetric cipher model,
- Substitution techniques: Caesar cipher, Monoalphabetic ciphers, Polyalphabetic ciphers, Hill cipher, Playfair cipher,
- Transposition techniques: Rail fence, Columnar,
- Introduction of steganography.

Unit - III

Block Ciphers:

- Block cipher principles,
- Introduction to Feistel cipher,
- Data encryption standard,
- Strength of DES,
- Block cipher design principles.

Question Paper format

Diwaliba Polytechnic, Mahuva *Uka Tarsadia University, Bardoli*

Diploma CE 5th – Semester

MID-I Examination

Subject: INFORMATION SECURITY

Time: 75 mins Max. Marks: 30

Instruct	ions:		
1.	Attempt ALL QUESTIONS		
2.	Make suitable assumptions wherever necessary.		
3.	 Draw diagrams/figures whenever necessary. Figures to the right indicate full marks allocated to that question. Follow usual meaning of notations/abbreviations. 		
4.			
5.			
Q-1	(A) Answer the following. (Any 1) 1	[04]	
	2		
	(B) Answer the following. (Any 1)	[05]	
	1 2		
Q-2	(A) Answer the following. (Any 1)	[04]	
	1		
	2		
	(B) Answer the following. (Any 1)	[05]	
	1 2		
Q-3	(A) Answer the following in detail. (Any 1)	[02]	
	1		
	2		
	(B) Answer the following in detail. (Any 2)	[10]	
	1		
	2		
	3		

Question no.	Unit no.	Marks
Q. 1 (A), (B)	Unit 1	09
Q. 2 (A), (B)	Unit 3	09
Q. 3 (A), (B)	Unit 2	12

Date: