No. of Printed Pages: 3	No.	of	Printed	Pages	:	3
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MSEI-022

Maximum Marks: 50

P.G. DIPLOMA IN INFORMATION SECURITY (PGDIS)

00152

Time: 2 hours

Term-End Examination June, 2014

MSEI-022: NETWORK SECURITY

Note: Section A - Attempt all objective questions.

Section B - Attempt all the very short answer type questions.

Section C - Attempt any two out of three short answer type questions

Section D - Attempt any two out of three long type questions.

SECTION - A

(Attempt all the questions)

1. Write True or False:

- (a) DES uses pair of keys for encryption.
- (b) Embedding function is secure part of watermarking life cycle process.
- (c) The value of TTL in IP datagram starts with zero and then increases.
- (d) The Hash function is a transformation that takes an input of fixed length and produces output of variable length.
- (e) Decryption process converts ciphertext to plaintext.

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2.	Fill in	n the blanks :					
	(a)	For a Govt. organisation, the recommended key size for public key is bits.	1				
	(b)	The US Govt. certifies DES every years.	1				
	(c)	The email users typically download email from mail servers using protocol.	1				
	(d)	is a type of Packet Switching that uses short fixed sized packets for transfer of information.	1				
	(e)	A computer used as trap set to detect or deflect unauthorised use is known as	1				
		SECTION - B					
		(Attempt all the questions)					
3.	Write short notes on the following: 2x5=						
	(a)	IP Datagram					
	(b)	Functions of the Firewall.					
	(c)	Steganography					
	(d)	Symmetric Cryptography					
	(e)	Hash function					
		SECTION - C					
(Att	empt	any two out of three short type questions)					
4.	How	w does a NAT firewall function ?					
5.	Expla	lain the use of mobile device forensics.					
6.	List and briefly explain various stages of cryptography.						

SECTION - D

(Attempt any two out of three long type questions)

- 7. What are various threats that exists for current networks? Explain at least four such threats, which according to you is most difficult to handle and why?
- 8. Explain various types of symmetric ciphers with 10 suitable examples of each.
- 9. Explain how electronic signature technology works. Explain the process of its creation and verification.

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