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VI Semester B.Sc. Degree (CBCSS-Reg./Supple./Improv.) Examination, April 2020 (2014 Admission Onwards) CORE COURSE IN COMPUTER SCIENCE 6B16CSC:E06: Information Security

Time: 3 Hours Max. Marks: 40

PART - A

1.	a)	An attack that threatens confidentiality of information is
		The process of converting cipher text to plain text is
	c)	The art and science of creating secret code is
	d)	An example for block cipher is
	e)	Expand DES.
	f)	Give an attack on RSA signature.
	g)	RSA stands for
	h)	Secret key encryption is encryption. (8×0.5=4)

PART - B

Answer any seven.

- 2. Define integrity.
- 3. What are viruses?
- 4. What are substitution ciphers? Give an example.
- 5. What is a public key?
- 6. Mention any two applications of steganography.
- 7. What are block ciphers?

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- 8. What is message authentication?
- 9. What is a brute force attack?
- 10. What is Non-Repudiation?
- 11. Give an overview of encryption and decryption with DES.

 $(7 \times 2 = 14)$

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Answer any four.

- 12. Which are the keys used in public key cryptosystems? How are they used?
- 13. What are the security goals?
- 14. Explain the permutation steps in DES.
- 15. Explain the properties of a block cipher.
- 16. Compare conventional signatures and digital signatures.
- 17. What is the need for keys in digital signatures?

(4×3=12)

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Answer any two.

- 18. Explain transposition ciphers.
- 19. Write notes on Security of DES.
- 20. Explain the applications of key cryptosystems.
- 21. Explain RSA Algorithm.

 $(2 \times 5 = 10)$