M.R.

Eighth Semester B.E. Degree Examination, Dec.2023/Jan.2024
Information and Network Security

Max. Marks:100

Time: 3 hrs. Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

PART - A

		PART – A	
1	a. b.	With a neat diagram, explain briefly the major steps in contingency planning. Define policy and explain the issues – specific security policy.	(10 Marks) (10 Marks)
2	a. b.	Explain any two firewall architecture, with neat diagrams. Explain the implementation of Virtual Private Networks (VPN) in different method	(10 Marks) .(10 Marks)
3	a. b. c.	Describe the different IDPS detection methods. What is Honey pots? List the advantages and disadvantages of using honey pots. Define the following terms related to IDS: i) Alert ii) False attack stimulus iii) False negative iv) False positive v) True attack stimulus.	(10 Marks) (05 Marks) (05 Marks)
4	a.b.c.	Define the following terms with respect to cryptography. i) Algorithm ii) Steganography iii) Cipher iv) Work factor v) Key space vi) Plain_text. Describe any four attacks on a cryptosystems. Explain Vernam Ciphere with an example.	(06 Marks) (08 Marks) (06 Marks)
5	a. b.	PART – B Briefly explain the four types of active attacks normally encountered in secur Also, distinguish between active and passive attacks. With the help of a neat diagram explain the general format of a X·509 public key	(12 Marks)
6	a. b.	Explain the different MIME content types. Describe the steps involved in providing authentication and also confidentiality with suitable illustration.	(10 Marks) ty by PGP, (10 Marks)
7	a. b. c.	With a neat diagram, discuss the basic combinations of security associations. Mention the important features of Oakely algorithm. Describe the benefits of IPSec.	(10 Marks) (05 Marks) (05 Marks)
8	a. b. c.	Explain the handshake protocol action in SSL. Explain the key features of SET. Discuss the SSL protocol stack. CMRIT LIBRARY BANGALORE - 560 037	(10 Marks) (04 Marks) (06 Marks)