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10CS/IS835

## Eighth Semester B.E. Degree Examination, July/August 2021 Information and Network Security

Time: 3 hrs.

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Max. Marks:100

## Note: Answer any FIVE full questions.

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1	a. b.	With a neat diagram, explain the components of contingency planning.	(10 Marks) (10 Marks)
2	a. b. c.	Explain how the firewalls have been categorized based on processing modes. Briefly explain how remote connections can be protected. Explain any 2 architectural implementations of firewalls.	(10 Marks) (06 Marks) (04 Marks)
3	a. b. c.	Explain the different detection methods used by on IDPS. Briefly explain how a Host Based IDPS (HIDPS) can be used to monitor a computer or server. Briefly explain the different control strategies used by IDPS.	(10 Marks) particular (04 Marks) (06 Marks)
4	a. b. c.	Briefly explain the different categories of attacks on crypto systems. Explain with an example encryption and decryption can be done using Vernam cip Briefly explain how wireless network can be secured using Wi-Fi Protected Acce	(08 Marks)
5	a. b. c.	Define: i) Security Attack ii) Security Mechanism iii) Security service. Expla attacks in details. Explain message exchanges in Kerberos version 4. Explain the X.509 certificate format.	in security (10 Marks) (06 Marks) (04 Marks)
6	a. b. c.	List the different services offered by PGP and also mention the algorithm use service. Explain PGP Message generation and PGP message reception using and private Explain the different functions provided by S/MIME.	(06 Marks)
7	a. b. c.	With a diagram, explain the IPSec Document overview. Explain IPSec Authentication header. Discuss the need for Oakley algorithm and its important features.	(08 Marks) (06 Marks) (06 Marks)
8	a. b.	Discuss the components of SET with diagram. Explain how the alert protocol is used to convey SSL related alerts to the peer also list the alerts that are fatal.	(10 Marks) entity and (10 Marks)

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