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10CS/IS835

Eighth Semester B.E. Degree Examination, Jan./Feb.2021
Information and Network Security

Time: 3 hrs. Max. Marks:100

Note: ***Answer any FIVE full questions, selecting at least TWO questions from each part.***

PART – A

1 a. What is policy? With a block diagram, explain relationship among policies, standards, guidelines, procedures and practices. **(10 Marks)**
b. Describe an EISP and its components. **(10 Marks)**

2 a. Briefly explain the best practices for firewall use. **(10 Marks)**
b. Write a short note on : (i) RADIUS (ii) TACACS. **(10 Marks)**

3 a. What is IDPS? Explain IDPS terminology. **(10 Marks)**
b. Explain the features of HIDS. List merits and demerits of the same. **(10 Marks)**

4 a. Define the following terms:
(i) Algorithm
(ii) Key
(iii) Plain text
(iv) Stegnography.
(v) Work factor. **(10 Marks)**
b. Explain Vernam Cipher method with an example. **(10 Marks)**

PART – B

5 a. What is security attack? Discuss various categories of active attacks. **(10 Marks)**
b. Describe briefly X.800 security service. **(10 Marks)**

6 a. Explain different components of PGP message. **(10 Marks)**
b. Explain different MIME content types. **(10 Marks)**

7 a. With a neat diagram, explain IP security architecture. **(10 Marks)**
b. Discuss briefly ESP packet format. **(10 Marks)**

8 a. Explain the parameters that define session state and connection state in SSL. **(10 Marks)**
b. What are the services provided by SSL record protocol? **(10 Marks)**

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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