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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) Stegno-graphy.  
(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.