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Eighth Semester B.E. Degree Examination, Aug./Sept. 2020
Information and Network Security

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Define policy. Discuss the system specific security policy. (10 Marks)
- b. Explain the major steps specified in BS7799 : 2 document. Show these steps help in security planning. (10 Marks)
- 2 a. What is a firewall? Explain categories of firewall based on processing mode. (10 Marks)
- b. What are virtual private networks? Explain different modes of a VPN. (10 Marks)
- 3 a. What is an intrusion? Explain briefly about any eight IDPS terminologies. (10 Marks)
- b. Write short note on Honey pots, Honey nets 2 Dadded cell system. (06 Marks)
- c. Briefly explain the need of operating system detection tools. (04 Marks)
- 4 a. Define cryptography. Explain briefly principles of cryptography. (10 Marks)
- b. Who can attack cryptosystems? Discuss different categories of attacks on cryptosystems. (10 Marks)

PART – B

- 5 a. What are different security mechamsins? Briefly explain them. (10 Marks)
- b. With neat diagram, explain network security model. (06 Marks)
- c. Distinguish between active and passive attacks. (04 Marks)
- 6 a. With flow charts, explain the process of transmission and reception of PGP messages. (10 Marks)
- b. Describe S/MIME functionality. (05 Marks)
- c. Explain S/MIME certificate processing method. (05 Marks)
- 7 a. Explain IP security architecture with diagram. (10 Marks)
- b. With neat diagram, discuss the basic combinations of security associations. (10 Marks)
- 8 a. Write short notes on :
 - i) SSL handshake protocol (10 Marks)
 - ii) SSL alert protocol. (10 Marks)
- b. List out the key features of secure electronic transaction and explain in detail. (10 Marks)

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