USN ☐☐☐☐☐☐☐☐☐☐ **10CS/IS835**

Eighth Semester B.E. Degree Examination, Dec.2017/Jan.2018
Information and Network Security

Time: 3 hrs. Max. Marks:100

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

PART – A

1   a. Describe an EISP and its components. **(10 Marks)**
    b. Define policy and explain issue specific security policy. **(10 Marks)**

2   a. What is firewall? Explain the dual homed host firewall. **(10 Marks)**
    b. Define virtual private network. Explain different techniques to implement a virtual private network. **(10 Marks)**

3   a. Describe network based intrusion detection and prevention system. **(10 Marks)**
    b. Explain the different types of IDP systems detection methods. **(10 Marks)**

4   a. Define cipher method. Explain vernam cipher method with example. **(10 Marks)**
    b. Discuss different categories of attacks on cryptosystems. **(10 Marks)**

PART – B

5   a. Discuss the security services. **(10 Marks)**
    b. Briefly discuss the difference between Kerberos version 4 and Kerberos version 5. **(10 Marks)**

6   a. With a neat diagram, explain authentication and confidentiality of PGP. **(10 Marks)**
    b. Explain S/MIME content types. **(05 Marks)**
    c. Describe S/MIME functionality. **(05 Marks)**

7   a. Explain the architecture of the IPSec and discuss the role of security associations. **(10 Marks)**
    b. With neat diagram, explain IPSec ESP formant. **(05 Marks)**
    c. Mention the important features of Oakley algorithm. **(05 Marks)**

8   a. Discuss the SSL protocol stack. **(05 Marks)**
    b. Explain key features of SET. **(05 Marks)**
    c. Describe the components of SET, with diagram. **(10 Marks)**

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