

Total No. of Questions : 8]

SEAT No. :

**P825**

[Total No. of Pages : 2

**[5870]-1148**

**T.E. (Information Technology)**  
**COMPUTER NETWORK & SECURITY**  
**(2019 Pattern) (Semester - II) (314451)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answer four questions from the following.*
- 2) *Figyres to the right side indicate full marks.*
- 3) *Draw the neat sketches wherever required.*

**Q1) a)** Explain with diagram layerd architecture & clustered architecture for sensor network. **[9]**

**b)** Comment on Adhoc Netwrok MAC layer with design issues, Design goal. **[9]**

OR

**Q2) a)** Explain the issues in designing a Routing protocol for adhoc wirless network. **[9]**

**b)** Explain different issues and challenges in designing sensor network. **[9]**

**Q3) a)** What is the importance & need for security and explain network attack. **[8]**

**b)** Explain different block cipher muscles. **[9]**

OR

**Q4) a)** Explain distributed denial of service attacks in details **[8]**

**b)** Explain with suitable examples what do you mean by active attacks & passive attacks. **[9]**

**Q5) a)** Write a short notes on **[9]**

i) Encryption

ii) Decryption

**b)** Explain RSA in details **[9]**

OR

**P.T.O.**

- Q6) a)** What is digital signature? What are application of digital signature [9]
- b) Explain following terms. [9]
- i) Cryptography
  - ii) Symmetric key Cryptography
  - iii) Asymmetric key Cryptography

- Q7) a)** Write short notes on [9]
- i) Malware
  - ii) Phishing
  - iii) MITA attack
- b) Elaborate different cyber security polycies in detail and explain different challenges in internet governance. [8]

OR

- Q8) a)** Explain the term cyber stalking. How to iderty and detect cyber stalking.
- b) Explain the types of cyber-crimes.

