

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 wireless 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 identify and detect cyber stalking.

b) Explain the types of cyber-crimes.

