

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 Network 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.

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