Total No. of Questions : 8]

PA-1507

SEAT No. :

[Total No. of Pages : 2

[5926]-127

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

Time : 2¹/₂ Hours]

Instructions to the candidates:

[Max. Marks : 70

- 1) Answer Q1 or Q2, Q3, or Q4, Q5 or Q6, and Q7 or Q8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data if necessary.

Q1) a)	Explain DSDV & AODV protocol in detail.	[9]
b)	Write a short note on sensor network with classification	of protocols
7	used.	[9]

Q2) a) Explain design issues and design goal in adhoc network MAC layer. [6]

OR

- b) Compare sensor network with adhoc wireless network. [6]
- c) Explain with diagram clustered architecture for sensor network. [6]
- Q3) a) Explain different block cipher modes.b) Comment on security principles and security services.

OR

- Q4) a) What is importance and need of security?. [5]
 b) Explain distributed Denial of service attacks. [6]
 - c) Explain Electronic Code block (ECB) mode
- Q5) a) Explain difference between symmetric and asymmetric key cryptography.[9]
 - b) Explain Data Encryption Standards with diagram. [9]

P.T.O.

[9]

[6]

- *Q6*) a) Explain following terms:
 - i) Groups
 - ii) Rings
 - iii) Prime Numbers
 - b) Explain diffic Hellman key exchange in detail.
- Q7) a) What is cyber terrorism? Write in detail example of cyber terrorism. [8]

C. J. A.

b) What is a man-in-the-middle attack (MIM)? Explain in detail. [9] OR

[9]

[9]

- Q8) a) Explain the term phishing & SQL Injection with suitable example. [8]
 - b) Explain the term cyber stalking & cyber espionage with suitable example. [9]