

Total No. of Questions : 8]

SEAT No. :

PD4329

[Total No. of Pages : 2

[6403]-127

T.E. (Information Technology)
COMPUTER NETWORKS & SECURITY
(2019 Pattern) (Semester - VI) (314451)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6 and Q7 or Q8.
- 2) Figures to the right indicate full marks.

- Q1)** a) Explain DSR in details with route discovery & route maintenance. [9]
b) Comment on Adhoc Network MAC layer with Design issues, Design Goal. [9]

OR

- Q2)** a) Briefly explain classification of routing protocol for Adhoc Wireless Network. [6]
b) Explain with diagram layered Architecture of Sensor Network. [6]
c) Write a short note on MACAW. [6]

- Q3)** a) What is stream cipher? Explain the encryption process using stream cipher with suitable example. [8]
b) What is Cipher Feedback Mode (CFM)? Explain the process of CFM with suitable example. [9]

OR

- Q4)** a) What is substitution cipher? Explain the mono alphabetic cipher and poly alphabetic cipher. [5]
b) Define Network Attack. Explain with suitable example what do you mean by active attack & passive attacks. [6]
c) Describe the following network security threats: [6]
i) Unauthorized access
ii) Distributed denial of service
iii) Man in the middle

P.T.O.

Q5) a) Explain private key management. [9]

b) Explain advanced encryption standard with diagram. [9]

OR

Q6) a) Explain following term : [9]

i) Hash function

ii) Digital signature

iii) Digital certificate

b) Explain PKIX Model. [9]

Q7) a) Define crime and cybercrime? State cybercrimes classification. [8]

b) Define the term cyber security & explain layers of security. [9]

OR

Q8) a) Explain the concept of software attack & hardware attacks with example. [8]

b) Write short notes on : [9]

i) Malware

ii) Phishing

iii) Cyber threat

