

Total No. of Questions : 4]

SEAT No. :

100

[Total No. of Pages : 1]

PD104

[6410]-425
T.E. (AI & DS) (Insem)
CYBER SECURITY
(2019 Pattern) (Semester - II) (317530)

Time : 1 Hour]

[Max. Marks : 30]

Instructions to the candidates:

- 1) Attempt Q.1 or Q.2, Q.3 or Q.4.
 - 2) Neat diagrams must be drawn wherever necessary.
 - 3) Figures to the right indicate full marks.
 - 4) Use of electronic pocket calculator is allowed.

Q1) a) Draw and explain operational security model for network security. [6]
b) Write difference between security and privacy. [5]
c) Explain passive and active attack. [4]

QB

Q2) a) Define the following term with example. [6]
i) Symmetry ii) Asymmetry
b) List and explain various elements of information security. [5]
c) What are the different threats and vulnerabilities in case of cyber security? [4]

Q3) a) Explain One Time Pad with example. [6]
b) Difference between AES and DES. [5]
c) Use the transposition cipher to encrypt the message “GEEKS FOR GEEKS” use key “HACK”. [4]

OR

Q4) a) What is block cipher? Explain counter mode of block cipher. [6]
b) Explain Play fair Cipher with example. [5]
c) Explain DES Algorithm. [4]

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