

Total No. of Questions : 4]

SEAT No. :

PC-120

[Total No. of Pages : 1

[6360]-126

T.E. (Artificial Intelligence and Data Science) (Insem.)

COMPUTER NETWORKS

(2019 Pattern) (Semester - I) (317521)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Attempt Q.1 or Q.2, Q.3 or Q.4.
- 2) Figures to the right indicate full marks.
- 3) Neat diagram must be drawn wherever necessary.
- 4) Assume suitable data, if necessary.

Q1) a) Enlist different network devices, Explain difference between Switch and Router. [5]

b) Compare OSI and TCP/IP Model? Justify how TCP/IP is better than OSI Model now a days. [5]

c) Which are different types of topology? Explain any One. [5]

OR

Q2) a) Define a computer network? Explain Client Server and Peer to Peer Network Architecture? [5]

b) Differentiate between Guided Media and Unguided Media. [5]

c) Explain different types of addressing methods. [5]

Q3) a) Explain in brief FHSS and DSSS? [5]

b) Represent 1100100111 using Manchester and Differential Manchester Line Coding Technique. [5]

c) Define Attenuation, Distortion, Noise, Analog Signal & Digital Signal. [5]

OR

Q4) a) Explain Manchester and Differential Manchester Line Coding Schemes? [5]

b) Differentiate between Circuit Switching and Packet Switching. [5]

c) Explain Straight Through Cable and Crossover Cable with schematic diagram? [5]

