SEAT No. :

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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 110010011 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]**

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