SC-194

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Seat No.	

T.E. (Computer Science and Engg.) (Semester - V) (Revised) Examination, December - 2019

NETWORK TECHNOLOGIES

Sub. Code : 66297

Day and Date : Monday, 2 - 12 - 2019 **Total Marks : 50**

Time : 2.30 p.m. to 4.30 p.m.

Instructions :
1) **Q.1 is Compulsory.**
2) **Attempt any three questions from Q.2 to Q.5**
3) **Figures to the right indicate full marks.**
4) **Assume suitable data wherever necessary.**

Q1) a) What is hand off? Explain intra-BSC handover in GSM. **[6]**

b) Give the difference between WLAN and WPAN technologies **[4]**

c) Explain design goals of routing protocol for Ad hoc wireless network. **[4]**

Q2) a) Explain Distribution system concept and extended service set of WLAN. **[6]**

b) Explain Bluetooth time slot packet transmission. **[6]**

Q3) a) Explain MAC layer operation of IEEE 802.11, accessing and joining the wireless network. **[6]**

b) Explain the following physical links used in Bluetooth **[6]**

i) Asynchronous connectionless link.

ii) Synchronous connection oriented link.

Q4) a) With a neat block diagram explain WEP encryption and decryption algorithm. **[6]**

b) Explain the applications of wireless sensor networks. **[6]**

Q5) a) Write a short note on Mobile IP. **[6]**

b) Explain the architecture of sensor node. **[6]**

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