

QP Code : 30406

(3 hours)

(80 marks)

- Note: 1) Question 1 is compulsory.
2) Attempt any three from remaining questions
3) Assume suitable data wherever necessary.

- Q1. A) Explain sensor node hardware component? (10 marks)
B) Explain Spread-Spectrum Communication in detail (10 marks)
- Q2. A) Explain in detail GPRS Routing Protocol? List its advantages? (10 marks)
B) Explain in detail IEEE 802.15.4 MAC protocol. (10 marks)
- Q3. A) Discuss ARQ protocol in detail. (10 marks)
B) Explain in detail the design principles for wireless sensor network. (10 marks)
- Q4. A) Explain about transport layer and QoS in wireless sensor networks. (10 marks)
B) Explain in detail mathematical basics for lateration problem used for localization and positioning in WSN? (10 marks)
- Q5. A) Explain in detail the distributed source coding with an example and also show the correlation via hamming distance. (10 marks)
B) Explain in detail AODV routing protocol. (10 marks)
- Q6 Write short notes (20 marks)
- a. LEACH
 - b. GEM
 - c. WSN Link layer security framework
 - d. HTRS