

12/5/2016 BE IT (CBSGS) Sem-VIII Sub :- WSN

Q.P. Code : 722502

(3 Hours)

[Total Marks : 80

- N.B. :** (1) Question **No.1** is **compulsory**.
(2) Attempt **any Three** questions out of the remaining questions.
(3) **Total 4** questions need to be **solved**.

1. (a) Explain in detail Single-node architecture for WSN with neat diagram. 10
(b) Explain in detail Security attacks in wireless sensor networks. 10
2. (a) Explain in detail LEACH schedule - based protocol. 10
(b) Explain in detail IEEE 802.15.4 standard. 10
3. (a) Explain in detail ZigBee functional layer architecture and protocol stack with neat diagram. 10
(b) Explain in detail examples of C1WSN and C2WSN applications. 10
4. (a) Explain in detail Geographical routing protocol. 10
(b) Explain in detail Security Protocols for sensor networks. 10
5. (a) Explain in detail sparse topology and energy management. 10
(b) Discuss in detail Congestion and Packet loss recovery for Transport protocol in WSN. 10
6. Write short notes on (**any Four**) : 20
 - (a) SMACS.
 - (b) Mica - Mote Family.
 - (c) GARUDA.
 - (d) Tiny OS.