

Total No. of Questions : 8]

SEAT No. :

P-9681

[Total No. of Pages : 2

[6182]-933

**M.E. (Electronics & Telecommunication)**

**(E & TC IoT and Sensor System)**

**WIRELESS SENSOR NETWORK FOR IoT**

**(2017 Course) (Semester - I) (504603)**

*Time : 3 Hours]*

*[Max. Marks : 50*

*Instructions to the candidates :*

- 1) *Attempt to any five questions out of Eight.*
- 2) *Neat diagram must be drawn whenever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume the suitable data, if necessary.*

- Q1)** a) Distinguish between RS232 and RS485 protocols. [5]  
b) Explain the Zigbee. [5]
- Q2)** a) With neat block diagram explain the Ultra-wide sand. [5]  
b) Explain the MiWi protocol. [5]
- Q3)** a) Distinguish between WSN vs Adhoc Networks. [5]  
b) Explain the transceiver design considerations in WSNs. [5]
- Q4)** a) Explain the Low duty cycle protocols and wakeup concepts. [5]  
b) Write short note on IEEE 802.15.4 MAC protocol. [5]
- Q5)** a) Write a short note on Flooding and Gossiping. [5]  
b) Explain Design Principle of Gateway Protocols. [5]

*P.T.O.*

- Q6)** a) With neat block diagram explain the WSN architecture. [5]  
b) Write short note on internet communication WSN. [5]
- Q7)** a) Explain 6 Lo WPAN. [5]  
b) Explain the IP based WSN. [5]
- Q8)** a) Explain M2M communication. [5]  
b) Write short note on Alljoyn network. [5]

