## M. TECH. –III (COMPUTER ENGINEERING) (CBCS – 2015 COURSE): WINTER - 2017

## SUBJECT: SELF STUDY - I - SENSOR NÉTWORK AND EMBEDDED SYSTEM

Day: Date:		e: 11.00 AM TO 02.00 PM Marks. 60
N.B.	<ol> <li>All questions are COMPULSORY.</li> <li>Figures to the right indicate FULL marks.</li> <li>Assume suitable data WHEREVER necessary.</li> </ol>	
Q.1	Explain energy consumption of sensor node on the basis of <b>OR</b> Explain the concept of Event - based programming with near	•
Q.2	Explain the "Wake up radio concepts" in detail.  OR  What are the different routing protocols in wireless sensor the energy efficient routing with neat diagram.	(10)
Q.3	Explain state-centric programming in detail.  OR  Write a short note on following concept.  a) Node - level software platforms  b) Node - level simulators	(10) (10)
Q.4	With detail structure explain designing of hardware & softwembedded system.  OR  What are the types of embedded system? Classify the procesystem.	
Q.5	Explain the step wise designing and debugging with microp  OR  Explain different memory types used in embedded characteristics.	
Q.6	How C++ can be effectively used for developing eapplications.  OR  Explain the following terms with respect to C language.  a) Modifiers b) Statements c) Loops d) Pointers e) queues.	embedded system (10) (10)