

G. S. Mandal's
 Maharashtra Institute of Technology, Aurangabad
 (An Autonomous Institute)
 END SEMESTER EXAMINATION
First Year M.Tech(ETC) -April/May 2022

Course Code : MTE104

Course Name : Wireless Sensor Network

Duration : 2 Hrs

Max. Marks : 50

Date : 11/04/2022

INSTRUCTIONS TO CANDIDATES

- Assume suitable data wherever necessary and state the assumptions made.
- Diagrams / sketches should be given wherever necessary.
- Use of logarithmic table, drawing instruments and non programmable calculators is permitted
- Figures to the right indicate full marks.

Q. 1	Solve Any Five (Marks -10)	Marks	CO	BL
a)	What are features of TinyOS?	2	6	1
b)	Give characteristics of Imote2?	2	6	1
c)	What are applications of WSN?	2	1	1
d)	Write four research issues in WSN.	2	5	2
e)	Define Clustering	2	2	1
f)	List the factors that are essential for PHY design in WSNs	2	3	1
Q. 2	Compare wireless sensor networks with Ad Hoc networks.	8	2	4
Q. 3	Explain requirement and design constraints for wireless MAC protocol.	8	3	5
Q. 4	Describe node discovery protocols with reference to energy efficiency in sensor network.	8	4	3
Q. 5	List and explain various programming challenges in WSN. OR	8	5	2
Q. 5	Summarize issues of localization in WSN. Explain it	8	5	4
Q. 6	Discuss in detail sensor deployment mechanism in sensor network OR	8	6	5
Q. 6	Identify the key features of mica2, micaZ , Imote hardware module of network	8	5	3

****ALL THE BEST****

