

--	--	--	--	--	--	--	--	--	--



GIET UNIVERSITY, GUNUPUR - 765022

Ph. D. (First Semester) Examinations, January - 2024

23SPPECS1015 - Wireless Sensor Network

(CSE)

Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.

Answer ANY FIVE Questions

(14 x 5 = 70 Marks)

	Marks
1.a. Discuss about the enabling technologies to build up WSN.	
b. Discuss the characteristics requirements and the required mechanisms to realize the requirements of WSN.	7
2.a. Discuss the characteristic requirements of WSN.	7
b. Compare MANET and WSN.	7
3.a. Elaborate on the requirements of MAC protocols for WSNs.	7
b. Discuss about content-based addressing in detail.	7
4.a. Explain the concept of TRAMA protocol.	7
b. Explain efficiency by in-network processing.	7
5.a. Explain in detail the node level software platform.	7
b. Explain the challenges for sensor network platforms.	7
6.a. Explain geographical forwarding.	7
b. Explain data centric routing protocols.	7
7.a. Discuss on Angle of Arrival (AOA) and Time Difference of Arrival (TDOA) based tracking mechanisms.	7
b. Discuss about importance of time synchronization in WSN. Explain the different latency in the channel.	7
8.a. Describe in detail about SMACS.	7
b. Explain briefly the address assignment algorithm.	7

--- End of Paper ---