USN					



Internal Assessment Test 3 – Jan 2024

Sub:	Internet of Things and WSN	Sub Code:	18EC744	Branch	ECE		
Date:	03/01/2024 Duration: 90 min's Max Marks: 50	OBE					
	Answer any FIVE FULL Questions		1 1:00		MARKS	CO	RBT
1	Write a short note on operational status of a sensor	node wit	th different	power	10	CO4	L2
	Sensors are used by wireless sensor nodes to capture data fare hardware devices that produce a measurable response to condition like temperature or pressure. Sensors measure ph	from their to a change nysical dat	environment. e in a physica a of the parar	They l			
	to be monitored and have specific characteristics such as ac	ccuracy, se	ensitivity etc.				
2	What is an embedded operating system suitable for WS programming paradigms.	SN and exp	olain differer	nt	10	CO4	L2
	Sensor Type Strategy Architecture Mobility Coverage Static (S-WSN) Deterministic Flat Intentional Typ Mobile (M-WSN) Random Clustered Unintentional Degri (Levi Meyork Architecture Mobility Coverage Intentional Typ Mobile (M-WSN) Robot (WSRN)	pe Model					
3	With neat figures explain Optimization goals and figure networks. > Optimization goals and figures of merit:cntd • Scalability: The ability to maintain performance characteristics irrespective of the size of the network is referred to as scalability. With WSN potentially consisting of thousands of nodes, scalability is an obviously essential requirement The need for extreme scalability has direct consequences for the	of merit	for wireless	sensor	10	CO4	L2
	protocol design Voften, a penalty in performance or complexity has to be paid for small networks Varchitectures and protocols should implement appropriate scalability support rather than trying to be as scalable as possible Applications with a few dozen nodes might admit more-efficient solutions than applications with thousands of nodes	Localization OoS in Wireles Network	s Sensor	ty Controlled			



