Dr. Sankalpubismas. El 707-Dedeel. 1-12-2033 Roll No.:

## National Institute of Technology, Hamirpur (HP)

Name of Examination: Dual Degree VII Semester Examination (November -2023) Electronics & Communication Engineering Department

Subjec	h: E&CE et: Wireless Sensor Netwo 3 Hour	Semester: 7 Subject Code: EC – 707  Maximum Marks: 50	
Note: 1. 2. 3.	All the questions are compu Each question contains 10 r The marks distribution of each	ulsory marks $(10 \times 5 = 50)$ each question is indicated against the question.	
1.	<ul><li>i) What are the advantag</li><li>ii) Discuss about the mo</li><li>iii) Define the theorems</li></ul>	notone properties of random graph model.	(3+4+3)
2.		eometric constraints of Coarse-grained node localization?  dio signal-based distance-estimation technique?  t approach to measure the performance of Network localization?	(4+4+2)
3	i) Explain the role of Cr ii) How linear model fo diagram?	ristian's algorithm in time synchronization technique? or clock behavior is used for time synchronization technique? Explain with	proper (4+6)
4		ent of topology control?  cost equation and explain it?  t type of sleep-based topology control? Briefly explain anyone of them?	(2+2+6)
	5. Write short notes on ar (a) CBTC and (b) D	ny two of the following OS-MAC, (C) TPSN	(5+5)