

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID SEMESTER EXAMINATION MO/2024)

CLASS: BTECH  
BRANCH: ECE

SEMESTER : VII  
SESSION : MO/2024

SUBJECT: EC433 WIRELESS SENSOR NETWORKS

TIME: 02 Hours

FULL MARKS: 25

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a)	Compare MANET and WSN	[2] 1	3
Q.1(b)	List and discuss design challenges of WSN	[3] 1	2
Q.2(a)	Explain Radio Propagation Mechanism	[2] 1	1
Q.2(b)	Discuss Fading. Compare Fast fading and Slow Fading	[3] 1	1,3
Q.3(a)	Compare 'Continuous Packet sensing and dissemination' with programmed packet collection and dissemination' aggregation strategies of WSN	[2] 2	1,3
Q.3(b)	Explain Layered Network Architecture of WSN	[3] 2	1
Q.4(a)	List and explain in brief the quality-of-service parameters of WSN	[2] 2	1,2
Q.4(b)	Explain Single Node (Hardware) architecture of Wireless Sensor Network	[3] 2	2
Q.5(a)	Discuss the significance of MAC protocol	[2] 3	2
Q.5(b)	Discuss various possible scenarios of WSN	[3] 2	2

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