

No Preview
Available

Total No. of Question : [4]

Registration No. :

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Programme Name : Bachelor of Electronics and Telecommunication Engineering

Regular B.Tech.Final Year (A.Y.2023-24) ESE Sem. VII Nov.2023

VII SEMESTER (2020 BATCH)

201ETL404-Wireless Sensor Network(TH)

Duration : [02:00 PM - 04:00 PM]

Date : 28 Nov, 2023

Day : Tuesday

Marks : 50

Instructions :

(Q1) All Questions are compulsory [20.0]

(1.1) What are the characteristics of the wireless channel? [6.0]

CO :- 1

Blooms Taxonomy :- Understand

(1.2) Which are the performance metrics that are used for evaluating the performance of WSN? Explain each of them briefly. [7.0]

CO :- 2

Blooms Taxonomy :- Understand

(1.3) Explain S-MAC protocol in sensor networks [7.0]

CO :- 3

Blooms Taxonomy :- Understand

(Q2) All Questions are compulsory [10.0]

(2.1) Explain LEACH protocol in sensor networks [7.0]

CO :- 4

Blooms Taxonomy :- Apply

OR [2.1 / 2.2]

(2.2) Explain Mediation Device Protocol in sensor networks [7.0]

CO :- 4

Blooms Taxonomy :- Apply

(2.3) Differentiate between flooding and gossiping. [3.0]

CO :- 4

Blooms Taxonomy :- Apply

(Q3) All Questions are compulsory [10.0]

(3.1) Determine the impact of the Black hole attack in WSN [6.0]

CO :- 5

Blooms Taxonomy :- Apply

OR [3.1 / 3.2]

(3.2) Determine the impact of the Wormhole attack in WSN [6.0]

CO :- 5

Blooms Taxonomy :- Apply

(3.3) What are the possible solutions for jamming? [4.0]

CO :- 5

Blooms Taxonomy :- Apply

(Q4) Attempt any two out of three questions [10.0]

(4.1) What are the challenges of sensor network programming? [5.0]

CO :- 6

Blooms Taxonomy :- Apply

(4.2) Describe the Berkeley Motes in detail [5.0]

CO :- 6

Blooms Taxonomy :- Apply

(4.3) Explain TinyOS [5.0]

CO :- 6

Blooms Taxonomy :- Apply
