

Roll No. ....

**3719**

**B. Tech. 8th Semester  
(Computer Science & Engg.)  
Examination – May, 2023**

**WIRELESS ADHOC & SENSOR NETWORKS**

**Paper : OEC-ECE-430-G**

*Time : Three Hours ] [ Maximum Marks : 75*  
*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note : Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.*

1. Briefly explain the following terms :  $6 \times 2.5 = 15$
- (a) MANET
  - (b) Geocasting
  - (c) Key Management
  - (d) TinyOS

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- (e) Routing Layer
- (f) Sensors

**SECTION – A**

- 2. Discuss the characteristics & applications of MANETs in detail. 15
- 3. Explain the following protocols in detail :  $2 \times 7.5 = 15$ 
  - (a) Reactive Routing Protocol
  - (b) Proactive Routing Protocol

**SECTION – B**

- 4. Explain :
  - (a) Broad cast storm problem 7
  - (b) Transmission control protocol 8
- 5. Discuss different solutions for TCP over Adhoc network in detail. 15

**SECTION – C**

- 6. Discuss the classification of wireless sensor networks and its applications in detail. 15

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- 7. Explain the physical and MAC layer of Wireless sensor network in detail. 15

**SECTION – D**

- 8. Explain the following :  $2 \times 7.5 = 15$ 
  - (a) Dynamic nature of WSNs.
  - (b) Secure routing in WSNs.
- 9. Explain the following :  $2 \times 7.5 = 15$ 
  - (a) Intrusion Detection System
  - (b) Network Simulator

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