QP-6308

Seat No.

Total No. of Pages : 2

MAR_APR 2025 SUMMER EXAMINATION

1156 Master of Technology

Sub. Name: Adhoc & Wireless Sensor Networks

Sub. Code: 72684

Day and Date: JUNE ,04-06-2025 **Total Marks: 70**

Time: 10:30 AM To 01:30 PM

Instructions:
1. **All questions are compulsory**
2. **Assume suitable data wherever necessary and mention it boldly**
3. **Draw neat labelled diagrams wherever necessary**
4. **Figures to the right indicate full marks**
5. **Use Sketches/Diagrams wherever necessary**

Q1) Solve any two.....[2 × 7 = 14] **[14]**

1. State and explain indoor and outdoor Adhoc models. **[7]**

2. State and explain characteristics features of Adhoc networks with applications. **[7]**

3. State and explain characteristics of Wireless channel in detail **[7]**

Q2) Solve any two.....[2 × 7 = 14] **[14]**

1. Explain in detail IEEE standards: 802.11a protocol. **[7]**

2. State and explain Medium Access Protocols design issues in detail. **[7]**

3. Explain MAC Contention based protocols- with reservation. **[7]**

Q3) Solve any two.....[2 × 7 = 14] **[14]**

1. Explain hybrid routing algorithms in detail. **[7]**

2. Explain in detail routing protocols design issues. **[7]**

3. Explain unicast routing algorithms and multicast routing algorithms **[7]**

Q4) Solve any two.....[2 × 7 = 14] **[14]**

1. Explain Energy Consumption of Sensor Nodes **[7]**

2. Explain Cross layer Design: Need for cross layer design of adhoc 4G. **[7]**

3. Explain WSN Single-Node Architecture with Hardware Components **[7]**

Q5) Solve any two.....[2 × 7 = 14] **[14]**

1. Explain Integration of Adhoc with Mobile IP networks **[7]**

2. Explain sensor node hardware – Berkeley Motes in detail **[7]**

3. Explain programming challenges for Sensor Network Platforms and Tools **[7]**

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -
This Question Paper may be distributed for following Subjects as common code.
सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (1156) Master of Technology (CBCS) (72684) Adhoc & Wireless Sensor Networks Part 1 SEM 2