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No.

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मन - 069

## Advanced Computer Network (New) (1250)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any two** questions from each unit.
5. Figure to right indicates full marks.
6. Draw neat diagram if necessary.
7. Assume suitable data, if required.

### UNIT - I

1. List and explain IEEE 802.11 Network Services in detail. 10
2. Discuss power saving sequences in 802.11 n/w. 10
3. List the types of control frames & explain in detail how control fields are set for RTS frame with it's duration field. 10

### UNIT - II

4. Explain timer synchronization in 802.11 network. 10
5. Explain different frame types used in contention free period. 10
6. Discuss RF - Propagation with 802.11. 10

### UNIT - III

7. Explain gaussian frequency shift keying in detail. 10
8. Explain basic technique of DSSS & explain characteristics of DSSS - PHY. 10
9. Explain orthogonal frequency division multiplexing. 10

**UNIT - IV**

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| 10. | Discuss problems with WEP.                      | 10 |
| 11. | Explain 802.1 X architecture and nomenclature.  | 10 |
| 12. | Explain CCMP data processing with neat diagram. | 10 |

**UNIT - V**

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| 13. | Discuss issues in ad - hoc wireless network.   | 10 |
| 14. | Discuss different sensor network architectures.  | 10 |
| 15. | What is main aim of data gathering used in sensor network and describe algorithm used to implement data gathering. | 10 |

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