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DII1350

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. Draw clean and neat diagrams wherever necessary.
6. Assume suitable data wherever required.
7. Figure to the right indicate full marks.

UNIT - I

1. Explain with diagram interframe spacing in detail. 10
2. Draw and explain the following. 10
 - i) Data frame.
 - ii) Control frame.
 - iii) Management frame.
3. List and explain IEEE 802.11 Network services in detail. 10

UNIT - II

4. List and explain in short all the 802.11 management operations. 10
5. Explain the following terms. 10
 - i) Shanon limit.
 - ii) Path loss.
 - iii) RF components.
6. Explain PCF operations with neat diagram. State and explain different types of transmission from AP in PCF operation. 10

UNIT - III

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| 7. | Explain with diagram and example how the 2-level GFSK and 4 - Level GFSK modulation is achieved in FH PHY transmission. | 10 |
| 8. | Explain with diagram and example how data is encoded in Differential Quadrature Phase Shift Keying (DQPSK). | 10 |
| 9. | Discuss with diagram carrier multiplexing in OFDM PHY. | 10 |

UNIT - IV

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| 10. | Explain with diagram 802.11i key derivation and distribution. | 10 |
| 11. | Discuss the following EAP methods. | 10 |
| | i) LEAP. | |
| | ii) EAP - TLS. | |
| | iii) PAP. | |
| | iv) CHAP. | |

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| 12. | With neat diagram, Explain the WEP cryptographic operations. | 10 |
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UNIT - V

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| 13. | Discuss data dissemination and data gathering operations of wireless sensor Network in detail. | 10 |
| 14. | Explain in detail the CEDAR and ZRP hybrid routing protocols for Ad-Hoc wireless networks. | 10 |
| 15. | Discuss design issues for designing a routing protocol for Ad-Hoc wireless networks. | 10 |
