

- | | | | | |
|----|-----|----|-----|--|
| a) | a,b | b) | c,d | |
| c) | a,c | d) | b,c | |
10. Which of the following is not WSN protocol? CO5 [K₂]
- | | | | |
|----|---------|----|-----------|
| a) | LEACH | b) | Gossiping |
| c) | PEGASIS | d) | CSMA/CD |

Answer ALL Questions:-

PART B (10 x 2 = 20 Marks)

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|-----|---|-----|-------------------|
| 11. | Explain any four differences between cellular network and adhoc network? | CO1 | [K ₃] |
| 12. | List the significance of synchronization in designing a MAC protocol. | CO1 | [K ₃] |
| 13. | Is a table-driven routing protocol suitable for high-mobility environments? Justify | CO2 | [K ₃] |
| 14. | Compare flat and hierarchical routing. | CO2 | [K ₂] |
| 15. | List the three major classifications of multicast routing protocols. | CO2 | [K ₂] |
| 16. | Why is ABM not efficient? How can its efficiency be increased? | CO2 | [K ₃] |
| 17. | Which battery is being commonly used for portable mobile nodes such as laptops? | CO4 | [K ₃] |
| 18. | How does jamming attack work? | CO3 | [K ₃] |
| 19. | What do you mean by localization in WSN? | CO5 | [K ₂] |
| 20. | List the applications of WSN. | CO5 | [K ₂] |

Answer ALL Questions:-

PART C (6 x 5 = 30 Marks)

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|-----|--|-----|-------------------|
| 21. | Analyze the issues in designing MAC protocol for wireless networks. | CO1 | [K ₃] |
| 22. | Compare the pros and cons of using scheduling based MAC protocols over reservation based MAC protocols. | CO1 | [K ₂] |
| 23. | What is hybrid routing protocol? Briefly explain any one hybrid routing protocol. | CO2 | [K ₂] |
| 24. | Explain briefly about associativity based multicast routing protocol | CO2 | [K ₂] |
| 25. | Discuss in detail about the security attacks that cannot strictly be associated with any specific layer in the network protocol stack. | CO3 | [K ₂] |
| 26. | Explain in detail about the MAC protocol for WSN. | CO5 | [K ₂] |

Answer ANY FOUR Questions:-

PART D (4 x 10 = 40 Marks)

27. What is DSDV? How the DSDV protocol working and give advantages and disadvantages? CO2 [K₂]
28. (i) Give brief description about the attacks pertaining to the network layer in the network protocol stack. (5) CO3 [K₂]
(ii) Discuss in detail about the security attacks that cannot strictly be associated with any specific layer in the network protocol stack. (5)
29. (i) Outline the need for energy management in ad hoc networks. (4) CO4 [K₃]
(ii) Explain the various transmission power management schemes. (6) [K₃]
- 30 Explain in detail about QoS in sensor networks. CO5 [K₃]
31. Explain how data gathering is done in WSN. CO5 [K₂]
