

hop/multi hop)

Because of the unique attenuation characteristics of RF signals,

_____network provides a

significant energy saving over _____network for the same distance (single

hop/multi hop)

_____ are typically characterized by very small cells, especially in densely populated areas.

- a) 2G system
- b) 3G system
- c) 3.5G system
- d) 2.5G system

4. Match:

CO2 [K₁]

Standards	Network
1. IEEE 802.11	a. Zigbee
2. IEEE 802.16	b. Bluetooth
3. IEEE 802.15.1	c. WiFi
4. IEEE 802.15.4	d. WiMAX

- a) 1-a,2-b,3-c,4-d
- b) 1-c,2-d,3-b,4-a
- c) 1-c,2-d,3-a,4-b
- d) 1-a,2-b,3-d,4-c

5. The cell having same adjacent cluster cell with same channels are known as ____

CO3 [K₁]

- a) Adjacent cell
- b) Macro cell
- c) Co-channel cell
- d) Selective cell

6. Reducing the cell size to increase the capacity is called as_____

CO3 [K₁]

- a) Intelligent cell approach
- b) Microcell approach
- c) Top down approach
- d) Bottom up approach

7. Assertion (A): Increasing the number of cells increase the system capacity and reduce co channel interference

CO4 [K₁]

Reason (R): It requires very high power signal transmission

- a) both A and R are individually true and R is the correct explanation of A
- b) both A and R are individually true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true.

PART C (6 x 5 = 30 Marks)

- | | | |
|--|-----|-------------------|
| 21. Give an outline on the operation of mobile IP protocol. Show the two types of message formats. | CO1 | [K ₂] |
| 22. Interpret about data management in WAE with examples | CO2 | [K ₃] |
| 23. What do you mean by a mobility model? Describe the common types of mobility models. | CO3 | [K ₂] |
| 24. Discuss the principles of pervasive computing | CO4 | [K ₂] |
| 25. Explain about context-aware policies and architectures of context-aware security systems. | CO5 | [K ₂] |
| 26. Describe the software architecture for providing ambient services | CO5 | [K ₂] |

Answer any FOUR Questions

PART D (4 x 10 = 40 Marks)

- | | | |
|---|-----|-------------------|
| 27. Explain the WAP push architecture in detail. | CO1 | [K ₂] |
| 28. Illustrate the content architecture of mobile computing environment | CO2 | [K ₃] |
| 29. Discuss about different Handoff schemes in single traffic systems | CO3 | [K ₂] |
| 30. Explain the architecture of pervasive computing devices. | CO4 | [K ₂] |
| 31. Describe a framework for context-aware sensors | CO5 | [K ₂] |
