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April 2016

Time – Three hours  
(Maximum Marks: 75)

*[N.B: (1) Answer any fifteen questions in PART – A and division (A) or division (B) of each question in PART – B.*

*(2) Each question carries 1 (one) mark in PART – A and 12 (twelve) marks in PART – B.]*

PART – A

1. Define cell splitting.
2. List any two dimensions of multiplexing.
3. List any two applications of WLAN.
4. What is a geo-stationary satellite?
5. What is a piconet?
6. What are the two keys generated in the Bluetooth security?
7. What are the entities present in BSS?
8. Expand GPRS.
9. List any two advantages of WAP.
10. What is WML script?
11. What is meant by channel capacity?
12. What is CDMA 2000?
13. What is mobile node?
14. Define reverse tunnelling.
15. What is low cost routing?
16. What is done in fast retransmit?
17. Name any two wireless application languages.
18. Expand MIM.
19. List any two operating systems in mobile computing.
20. List any two features of 4G.

PART - B

21. (A) (i) Explain in detail, the different types of wireless communication technologies used in mobile.  
(ii) Briefly explain the architecture and function of mobile computing.

(Or)

- (B) (i) Explain briefly about FDMA and CDMA.  
(ii) Briefly explain the concept and features of Wi-Fi and Wi-Max.

22. (A) (i) Describe in detail about the Bluetooth protocol architecture.  
(ii) Explain SMS architecture in detail.

(Or)

- (B) (i) Describe briefly about the GSM architecture with a neat diagram.  
(ii) Briefly describe about the GPRS network architecture in detail.

23. (A) (i) Explain briefly about WAP push architecture.  
(ii) Explain the working of WSP in detail.

(Or)

- (B) (i) What is spread spectrum technology? Explain how it works in CDMA technology.  
(ii) Name the different types of 3G specific applications and explain any one of them in detail.

24. (A) (i) Explain the role of ICMP in agent advertisement messages.  
(ii) Describe the working of snooping TCP in detail and list down its advantages.

(Or)

- (B) (i) Briefly explain about adaptive and non-adaptive routing.  
(ii) Explain, how registration in a mobile mode is done via the FA and directly with the HA.

25. (A) (i) Explain briefly about emerging wireless technology.  
(ii) Explain how wireless applications are created using JAVA CARD.

(Or)

- (B) (i) Explain palm OS in detail.  
(ii) What is enhanced message service in mobile?