MAY 2022 **P/ID 16312/PITE4**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is mobile computing?

2. Specify the basic services provided by the MAC layer.

3. Mention the goal of GSM.

4. Define GPRS.

5. Write the characteristics of various orbits.

6. Name the entities of RSS.

7. What is Hiper LAN?

8. Define a tunnel.

9. Write the usage of piconet.

10. List out the advantages of IPv6 for mobile.

11. What are the functions of each node in MANET?

12. What are the requirements of mobile IP?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions.

13. Define Time division multiplexing Access.

14. What are the reasons for delays in GSM for packet data traffic?

15. Give format of IEEE 802.11 MAC packet structure.

16. Compare and contrast wireless WANs and WLAN.

17. List out and explain the differences between multi-hop ad-hoc networks and other networks.

18. How and why does I-TCP isolate problems on the wireless link? Explain.

19. Define Snooping TCP? Explain.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. Compare SDMA, TDMA, FDMA, and CDMA mechanisms.

21. What is UMTS? Explain UMTS in detail.

22. Explain the elements of Bluetooth protocol stack.

23. What is MANET? Explain the characteristics and applications of MANET.

24. What is Mobile TCP? Explain.
