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April 2018

<u>Time – Three hours</u>
(Maximum Marks: 75)

[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory. Answer any FOUR questions from the remaining in each PART - A and PART – B

(2) Answer division (a) or division (b) of each question in PART - C.

(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and 10 marks in PART – C.]

PART – A

1. What is cordless telephone system?

2. Define sectoring.

3. What are the goals of digital video broadcasting?

4. List the three different categories of services of GSM.

5. What is the purpose of 3G CDMA 2000?

6. Define WAP.

7. Write the disadvantage of fast retransmit / fast recovery.

8. What is encapsulation?

PART – B

9. Write notes on paging systems.

10. What is cyclical repetition of data.

11. Compare digital audio broadcasting (DAB) and digital video broadcasting (DVB).

12. What is UMTS?

13. List the parameters of quality of service (QoS) in 3G.

14. How is billing performed in GPRS?

15. What is reverse tunnelling?

16. What are the frequency and the channel specifications of IS–95?

[Turn over.....

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PART – C

17. (a) (i) Discuss about the evolution of mobile radio communication.
    (ii) Write short notes on cordless telephone system.

    (Or)

    (b) Explain the interference and system capacity of cellular radio systems. How will you improve the coverage and capacity in cellular systems?

18. (a) (i) Explain about the multimedia object transfer protocol.
    (ii) Write about digital video broadcasting for high speed internet access.

    (Or)

    (b) Explain in detail about digital audio broadcasting.

19. (a) (i) Explain about the components of radio subsystem.
    (ii) Describe handover.

    (Or)

    (b) Explain about the system architecture of DECT

20. (a) (i) Explain any two wireless OS for 3G handset.
    (ii) Explain about WAP gateway.

    (Or)

    (b) Explain the architecture of GPRS with diagram.

21. (a) (i) How does snooping TCP works? Write its advantages and disadvantages.
    (ii) How optimization is done when the mobile node changes its foreign agent?

    (Or)

    (b) Explain about routing and its methods in detail.

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