S.No. 2802 P 16 ELE 4 A

(For candidates admitted from 2016–2017 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Electronics - Elective

MOBILE COMMUNICATION

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. What is meant by frequency reuse?
2. Define space polarization.
3. Define mobile node.
4. Explain the term encapsulation.
5. Mention the function of the mobile transport layer.
6. What is meant by fast retransmit?
7. What is meant by wireless transaction protocol?
8. Define WML.
9. What is meant by timer?
10. Define the term class.

PART B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain with a neat block diagram, the elements of cellular radio system design.

Or

(b) Describe the basic fundamentals of equalization.

12. (a) Explain the various requirements and standards of mobile IP.

Or

(b) Write a short note on dynamic host configuration protocol.

13. (a) Discuss about the concept of congestion control.

Or

(b) Describe the various characteristics to be followed for changing 2.5/3G wireless links.

14. (a) Write a short note on wireless application protocol.

Or

(b) Enumerate the basic working principle of wireless application environment.

15. (a) Explain the basic system structure of Symbian OS.

Or

(b) Explain the concept of event handling with an example.

PART C — (3 × 10 = 30)

Answer any THREE questions.

16. Explain in detail the concept of channel assignment and system evaluation.

17. Briefly explain the concept of registration with a neat diagram.

18. With a neat diagram, explain in detail the working principle of mobile TCP.

19. Explain in detail the features and function of wireless transport layer security.

20. Describe the concept and function of API and Casting with an example.

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