B.TECH. DEGREE EXAMINATION, MODEL PAPER, 2023
III B.Tech. I Semester

WIRELESS AND ADHOC NETWORKS
(Artificial Intelligence & Data Science)

Time : 3 hours   Max. Marks: 60

Answer SIX Questions, Choosing ONE Question from each section
All Questions carry equal marks
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SECTION – I

1   (a)   Describe about the various characteristics of the Wireless Channel.

    (b)   Explain various multiple access techniques with suitable examples.

2   (a)   What is modulation? Explain various modulation techniques.

    (b)   Explain in detail about various IEEE 802 standards.

SECTION – II

3   Explain in detail about the various generations of cellular networks.

4   (a)   Write in brief about IEEE 802.16.

    (b)   Describe in detail about HIPERACCESS.

SECTION – III

5   (a)   Distinguish between Cellular and Adhoc wireless networks.

    (b)   Write in brief about the TCP in Wireless Domain.

6   (a)   Explain about Mobile IP.

    (b)   What are the various issues in Adhoc wireless networks?

SECTION – IV

7   (a)   What are the Issues and Challenges in providing QoS in Ad Hoc Wireless Networks?

    (b)   Explain about various MAC layer solutions.

8   Discuss briefly about QoS Frameworks for Ad Hoc Wireless Networks.

SECTION – V

9   Enumerate various Battery Management Schemes.

10   Explain in detail about various transmission power management schemes.

SECTION – VI

11   Write in brief about Ultra wide band radio communication.

12   Explain with a neat sketch the Meghadoot Architecture.