

Jaypee University of Engineering & Technology, Guna
T-1(Odd Semester 2023)

18B14CI744-Ad-hoc Wireless Networks

Maximum Duration: 1 Hour

Maximum Marks: 15

Notes:

1. This question paper has three (3) questions.
2. Write relevant answers only.
3. Do not write anything on question paper except your enrollment no.

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|---|--------------|------------|
| Q1. What do you mean by the concept of cellular networks? Explain the storage area network's various components, advantages, and disadvantages. | [05] | CO2 |
| Q2. With the help of a suitable diagram, describe the transmitting and receiving antennas. Distinguish between omnidirectional and directional antennas. An antenna has a directivity of 25 dB. Derive an expression for the maximum effective aperture for this antenna in terms of wavelength. | [05] | CO3 |
| Q3. Define wireless fading in a wireless system. Discuss the following fading with a suitable diagram.
(a) Shadow fading
(b) Multiple fading
(c) Path loss fading | [05] | CO4 |