

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-2022

B.Tech-VI Semester (ECE/CSE/IT)

COURSE CODE: 18B11EC611

MAX. MARKS: 15

COURSE NAME: Wireless and Data Communication

COURSE CREDITS: 03

MAX. TIME: 1 Hour

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*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

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Q1. Explain the key differences between 1G, 2G, 2.5G, 3G, and 4G mobile communication standards.

[CO1] [3]

Q.2 Answer the following questions

[CO1] [3]

a) What are the different multiple access techniques used in wireless communication?

b) What are the pros and cons of wireless communication?

c) Write three applications of wireless communications.

Q.3 Write short notes on:

[CO1, CO2] [3]

a) WLAN

b) WMAN

c) Base band and Band pass signal

Q.4 How CDMA is different from FDMA and TDMA? Explain with the help of suitable example.

[CO1] [3]

Q.5 Calculate the change in received signal strengths (in dB) in mobile radio propagation condition at two different distance points and comment on the results obtained.

[CO1] [3]

(a) When the second distance point is twice the distance of the first point.

(b) When the second distance point is ten times the distance of the first point.