Total number of printed pages:

Programme(D)/V-Semester/DECE-502

2022

Mobile and Wireless Communication

Full Marks : 100

Time : Three hours

rs. alla The figures in the margin indicate full marks for the questions.

Answer any five questions.

1. Write and explain the Kepler's law. Write and explain the important properties of ellipses. 2. Write a short note on 1) TDMA 1) TDMA 2) CDMA 3) FDMA 3. Using a table explain the technological differences in 1G, 2G, 3G, 4G and 5G 4. What is the spread spectrum technique in wireless communication? Explain the following in detail	20
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communication? Explain the following in detail	
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i) PN sequence ii) Direct sequence spread spectrum iii)	
Frequency hopped spread spectrum	
5. With a block diagram explain the optical fibre	20
communication system. Explain the roll of the following in	
the optical fibre communication	
1) LASER 2) LED 3) Optical detector	
6. (a) What is Cryptography? With an example explain the	10
following 1) Shared secret key 2) Public key 3) Private key	
(b) With an example explain the difference between symmetric and asymmetric key cryptography.	10
and asymmetric key cryptography.	

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