Continuous Assessment Test II - March 2024					
Programme	B. Tech. (ECE)	Semester	WS 2023-24		
Course Code & Course Title	BECE307L Wireless and Mobile Communication	Slot	A1		
Faculty	Dr. Hemanth C Dr. Priyanka Das Prof. Ralph S Thangaraj Dr. D. Thiripurasundari Dr. S. Usha Rani	Class Nbr	: CH2023240500936 CH2023240500948 CH2023240500956 CH2023240500926 CH2023240500942		
Ouration :	90 Minutes	Max. Marks	: 50		

## General Instructions:

- Write only your registration number on the question paper in the box provided and do not write other information.
- Only non-programmable calculator without storage is permitted

## Answer all questions

Q.No.	Sub. Sec.	Questions	Marks	
1.	di periodi	Find the median path loss under the Hata model, for a radio signal at 900 MHz cellular system operating in a large urban city, with a base station transmitter antenna height of 20 m and mobile receiver antenna height of 2 m. The mobile unit is located at a distance of 3000 m. Also compute the median path loss when the system is operated in a rural scenario. Explain qualitatively the path loss difference in these environments.		
2.	<ul> <li>For the given specifications with 4 delay components as described below: <ul> <li>Power at 0<sup>th</sup> ms = Add the last two digits of your home location pin code in dB.</li> <li>Power at 1 ms = Use your current age in dB.</li> <li>Power at 2 ms = Subtract the age value obtained (corresponding to 1 ms) from the last two digits of the current year (2024) in dB.</li> <li>Power at 4 ms = Subtract the age value obtained (corresponding to 1 ms) from the first two digits of your year of birth in dB.</li> <li>(i) Construct a Power delay profile for a wireless channel with the above</li> </ul> </li></ul>			

