

College Code: 09

Rajeev Gandhi Memorial College of Engineering & Technology

Autonomous

NANDYAL-518501

IV B.Tech II-Semester- Mid-I Examinations

MICROWIND & LAB VIEW

(ECE)

Max. Marks: 25

Date:21-02-2022

Time: 2 Hours

Note: 1. Answer the **FIRST** question compulsorily. (5 x 2= 10 Marks)

2. Answer Any **THREE** from 2 to 5 questions.(3 x 5 = 15 Marks)

Q.No	Marks	CO	Blooms Level
Q.1 a) What is Technology scaling.	2M	CO1	BL1
b) Briefly explain DSCH.	2M	CO1	BL2
c) Draw full adder circuit diagram	2M	CO2	BL2
d) Mention the applications of Silicon On Insulator.	2M	CO1	BL1
e) What is Nano Lambda.	2M	CO2	BL1
Q.2 a) Explain Moore's law with relevant graph.	3M	CO1	BL2
b) Mention the advantages of scaling	2M	CO1	BL1
Q.3 a) Draw circuit diagram and layout design of CMOS Inverter	3M	CO2	BL2
b) Draw the simulated output waveforms of CMOS NAND Gate.	2M	CO2	BL2
Q.4 a) Explain W/L ratio.	3M	CO3	BL2
b) List out modules or segments of Microwind tool.	2M	CO1	BL1
Q.5 a) Explain about Silicon On Insulator.	3M	CO2	BL2
b) Explain virtual FAB.	2M	CO1	BL2