

International Islamic University Chittagong (IIUC)
Department of Electronic and Telecommunication Engineering

Final Exam

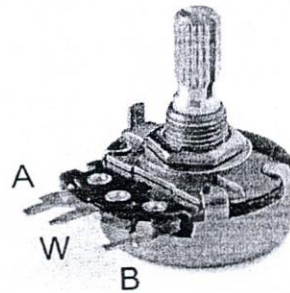
Semester: Autumn -2021(4th semester)
 Course Code: EEE -1122
 Full Marks: 50

Program: B.Sc. Engineering
 Course Title: Electrical Circuit I DC
 Time: 2.5 Hours

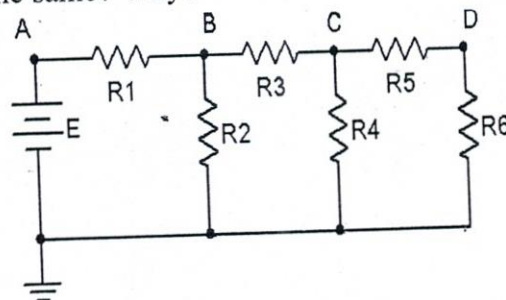
1. Find the value of a 4 band resistance. Band 1 is orange, band 2 is yellow, band 3 is blue, and band 4 is Silver. 03



2. Explain KVL and KCL 03
 3. Could you measure current in parallel? 01
 4. How many Types of Circuit Loads are there in a Common Electrical Circuit? 01
 5. What is Voltage Divider Rule? Write the formula for voltage divider and current divider. 02
 6. Fill in the blanks : Unit of Conductance is----- 01
 7. Write the function of following instrument: Bread Board, Trainer Board, Multi Meter, Ohm Meter, Ammeter, Volt Meter, Hertz Meter, DC Supply. 08
 8. Write the name of following device, Discuss the process to get the value. 03



9. State maximum power theory. At what point does maximum load power occur? 3
 10. Draw the connection of Voltmeter and ammeter to measure voltage and current. 2
 11. In the following Figure, if another pair of resistors was added across R6, would VD go up, down, or stay the same? Why? 3



12. Pick an experiment by lottery and perform the experiment. 10
 13. Viva 10