

Enrolment No:

KADI SARVA VISHWAVIDYALAYA
LDRP INSTITUTE OF TECHNOLOGY AND RESEARCH, GANDHINAGAR
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
B.E. 4th SEMESTER
MID SEMESTER EXAMINATION March-2015

Subject Code: EC-405

Branch: EC

Subject Name: Electronics Measurements and Measuring Instruments

Total Marks: 30

Date : 04/03/2015

Time: 12.00 AM to 1.30 PM

- Instructions:** - All questions are compulsory.
- Figures to the right indicate full marks.
- Make suitable assumption, wherever necessary.

- Que. 1** A) Application Of DSO. 3
B) Explain Accuracy and Precision. 3

- Que. 2** Answer the following questions.
A) Explain DSO Block Diagram. 4
B) Explain Kelvin double Bridge with equation. 5
C) An unbalanced Wheatstone bridge shown in Fig.1. Calculate the current through the galvanometer. 5

OR

- A) Explain CRO Block Diagram. 4
B) Explain Wein Bridge. Derive equation for Frequency. 5
C) A Maxwell bridge is used to measure inductive impedance. The bridge constants at balance are: $C_1=0.01\mu\text{F}$, $R_1=470\text{K}\Omega$, $R_2=5.1\text{K}\Omega$, and $R_3=100\text{K}\Omega$. Find the series equivalent of the unknown impedance. 5

- Que. 3** Answer the following questions.
A) Comparison between Light Emitting Diode and Liquid Crystal Diodes. 5
B) Explain BCD To 7-Segment Converter. 5

OR

- A) Explain the types of display device and Specification of Digital Multi meters. 5
B) Explain the BCD To Dot Matrix Converter. 5

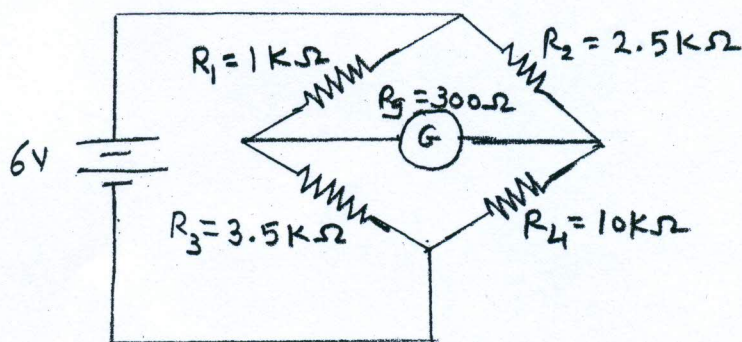


Fig.1

*****All The Best*****