

Roll No.:.....

National Institute of Technology, Delhi

Name of the Examination: B. Tech.

Branch : Electrical & Electronics Engineering Semester : 3rd
Title of the Course : Electrical & Electronics Measurements Course Code : EEB202

Time: 2 Hours

Maximum Marks: 25

Note : 1. Answer all the questions.

2. Do not write anything on the question paper except Roll number

3. Assume any data suitably if found missing

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- Q.1. Give the name of the bridge for measurement of unknown inductance which works well for quality factor $Q > 10$. Give the reason why it works well for this value. Explain this bridge with the help of proper circuit diagram and phasor diagram. Also give its derivation part. [Marks: 7]
- Q.2. Give the classification of Moving iron instruments. Explain its working also. [Marks: 6]
- Q.3. Explain the working of three phase electrodynamicometer type power factor instruments. [Mark: 5]
- Q.4. Prove with the help of proper derivation that the scale of Electrodynamicometer type instruments is not linear. [Marks: 4]
- Q.5. Explain Modified Kelvin double bridge for measurement of low resistances. [Marks: 3]