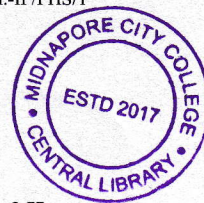


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PG CBCS
M.Sc. Semester-II Examination, 2022
PHYSICS
PAPER: PHS 295
(Electronics Practical-II)



Full Marks: 50

Time: 3 Hours

(Experiment: 35, Viva Voce: 10, Note Book: 5)

Everyone will do one experiment amongst the following. The marks distribution will be as follows: Theory with working formula (5), measurements and data tabulation (12), Graph plot and Calculation (10), error analysis (3), result and discussion (5).

1. Design a differential amplifier using OP-AMP, find its transfer characteristics, determine its differential and common mode gain.
2. Design a window comparator and study its transfer characteristics.
3. Determine slew rate of two different OP-AMP
4. Design an Astable and monostable multivibrator using 555 timer and study its behavior.
5. Design a LC oscillator and determine its oscillation frequency using two sets of L and C values.
6. Design a FET amplifier and find its linearity and frequency response characteristics.
