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PG CBCS
M.Sc. Semester-II Examination, 2021
PHYSICS
PAPER: PHS 295
(**ELECTRONICS PRACTICAL-II**)

Full Marks: 50 **Time: 3 Hour**

Answer any <u>TWO</u> questions from the following: **2×25=50**

1. Describe how you can design a 4 bit ripple up/down counter and develop different modulo counters from it.
2. Describe necessary theory to design a 4 bit Ring counter and a Twisted Ring counter.
3. Describe how you can study a differential amplifier circuit using OP-amp and find out its transfer characteristics and differential mode gain.
4. Design a window comparator using Op-amps and describe how you can study its characteristics.
5. Describe nebessary theory of a Monostable multivibrator with timer IC 555.
6. Describe how you can determination the slew rate of an Op-amp.

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