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PG CBCS M.Sc. Semester-IV Examination, 2021 PHYSICS

PAPER: PHS 495B PRACTICAL (SOLID STATE PHYSICS-II)

Full Marks: 50 Time: 2 Hours

Answer any TWO questions from the following:

 $25 \times 2 = 50$

- 1. Design of a Schmitt trigger circuit using µA 741.
- 2. Design and performance study of a VCO.
- 3. Design and performance study of a PLL.
- 4. Design a Pulse Width Modulation using 555 Timer IC.
- 5. To study the input stage of an Op-amp using discrete components and find out the differential mode gain.
- 6. PSIPCE study the input stage of an Op-amp using discrete components and find out the differential mode gain.
