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07/PG/4S/PHS/495A/20

**2020****M.Sc.****4th Semester Examination****PHYSICS****Paper – PHS-495A***Full Marks : 50**Time : 3 Hours*

The figures in the right hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

**Solid State Physics II (Practical)****Answer any *one* question:**

- 1) Write the following points in the study of Hall effect with variation of temperature.
  - a) Working Formula
  - b) Experimental Procedure
  - c) Precaution and Discussion
  
- 2) Write the following points in the study of Hysteresis loop of magnetic materials by using Hysteresis Tracer.
  - a) Working Formula
  - b) Experimental Procedure
  - c) Precaution and Discussion
  
- 3) Write the following points in the study of Diac & Triac characteristics with application.
  - a) Working Formula
  - b) Experimental Procedure
  - c) Precaution and Discussion
  
- 4) Write the following points in the study of Thermo luminescence in a crystal.
  - a) Working Formula
  - b) Experimental procedure
  - c) Precaution and Discussion