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**PG CBCS**  
**M.Sc. Semester-IV Examination, 2021**  
**PHYSICS**  
PAPER: PHS 495A  
PRACTICAL  
(SOLID STATE PHYSICS-II)

**Full Marks: 50**

**Time: 2 Hours**

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Answer any TWO questions from the following:

**25×2=50**

1. Discuss the theory for determination of Lande g-factor for a given sample using electron spin resonance spectrometer.
2. Discuss the characteristics of UJT and SCR.
3. Discuss the theory to study of characteristics of solar cell.
4. Briefly discuss about Diac and Triac characteristics.
5. Discuss about the theory to study the magnetoresistance of a material.
6. Discuss the working principle of UV/VIS spectrophotometer.

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