Total page: 01

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PG CBCS

M.Sc. Semester-IV Examination, 2022

PHYSICS

PAPER: PHS495D

(ASTROPHYSICS PRACTICAL)

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. Introduction (7), method (5), implementation (12), result (5), discussion(6).

1. Measure background rms of a given astronomical image using Astronomical Image Processing System (AIPS).
2. Measure flux density of a given astronomical object using Astronomical Image Processing System (AIPS).
3. Detect the variation of solar radiation using two component radio interferometer.
4. Study of solar flares on Very Low Frequency (VLF) signals using a standard transmitter signal.
5. Study the deflection of radio signal from Sun using a small radio antenna.
6. Study the variation of radio signal towards Galactic plane using a small radio antenna.

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