

Total Page: 1

**PG CBCS**  
**M.SC. Semester-III Examination, 2021**  
**PHYSICS**  
**PAPER: PHS 396D (SPL PRACTICAL)**  
**(ASTROPHYSICS I)**

**Full Marks: 50**

**Time: 3 Hours**

**Answer any TWO questions of the following:**

**2 X 25=50**

1. Describe how will you identify following astronomical objects.
  - i) North Pole
  - ii) The Big Dipper (Ursa Major)
  - iii) The Little Dipper (Ursa Minor)
  - iv) Betelgeuse
  - v) Cassiopeia
2. Describe how you can identify Sun spots with a solar-filter or a mirror.
3. Describe what you can learn from the study of Light curve of astronomical sources in different energy bands.
4. Describe what you can learn from the study of power spectrum of different astronomical sources.
5. Describe what you can learn from study of correlation, anti-correlation and time-delay between signals from two different wavelengths.
6. Describe how you can make RGB image of an astronomical source.

\*\*\*\*\*