

The Milky Way.

1. A group of 10 to 100 stars that formed at the same time but are so scattered that gravity does not hold them together is called
 - a) a bok globule
 - b) a globular cluster
 - c) an accretion disk
 - d) an open cluster
2. Which of the following is NOT a characteristic of stars in the disk of the Milky Way?
 - a) Circular orbits
 - b) Randomly inclined orbits
 - c) High metal abundances
 - d) Young stars
3. The energy source at the centre of the Galaxy
 - a) is not visible at optical wavelengths
 - b) produces synchrotron radiation
 - c) must be smaller than 10 AU
 - d) all of the above
4. Which of the following is the best way of measuring the age of the Milky Way?
 - a) Make an HR diagram of a globular cluster
 - b) Measure the main sequence turn-off for open clusters
 - c) Make a map of the 21cm radiation
 - d) Measure the rotation curve of the Galaxy