
Exercise G2: Galaxy Classification

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: What features of spiral galaxies are evident in this view of the Milky Way?

- a. A central super massive black hole.
- b. Glowing supernova remnants.
- c. A central bulge and dust lane.
- d. Active star formation regions in the spiral arms.

Question 2: What is common to the appearance of these visibly different spiral galaxies?

- a. They both appear spherical in shape.
- b. They both have a bright central core surrounded by a disk of spiral arms.
- c. They both show an abundance of hot blue stars in their disks.
- d. Their appearances are completely dissimilar.

Question 3: How does this elliptical galaxy differ in appearance from a spiral galaxy?

- a. It has a bright central core.
- b. It has an indistinct outer boundary.
- c. It has a central bulge and dust lanes.
- d. There are no visible spiral arms.

Question 4: What is the most striking visual feature of this lenticular galaxy?

- a. It is shaped like a spiral but has no spiral arms.
- b. It has very distinct spiral arms but no central bulge.
- c. It has large and obvious dust lanes.
- d. It is one member of a merging pair of galaxies.

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Question 5: Based on its appearance, what type of galaxy is the LMC?

- a. Elliptical
- b. Lenticular
- c. Spiral
- d. Irregular

Question 6: Using the diagram for reference, what type of galaxy is NGC1317?

- a. E5
- b. SBa
- c. S0
- d. Sa