There is a sketch of the Milky Way galaxy projected on the digital projector screen. Answer the following questions by writing one or more letters in the space provided.

1. Which letter is in a volume of the galaxy containing the oldest stars?  \textbf{J (could also say C)}
2. Which letter is in a volume of the galaxy containing the youngest stars? \textbf{D (or B or F or G)}
3. Which letter points to stars with elliptical orbits about the galactic center? \textbf{H}
4. Which letter is among stars with circular orbits about the galactic center? \textbf{D (or B or F or G)}
5. Which letter points to an open cluster of stars? \textbf{G}
6. Which letter points to a globular star cluster? \textbf{H}
7. Which letter points to a stellar nursery? \textbf{F}
8. Which letter is nearest to a supermassive black hole? \textbf{A}
9. Which letter is in the volume of the galaxy containing the most visible mass? \textbf{D}
10. Which letter is in the volume of the galaxy containing the most unseen mass? \textbf{J}
11. Which letter is among stars with the greatest age? \textbf{J}
12. Which letter is associated with the youngest stars? \textbf{F really (but B, D & G are OK)}
13. Which letter is located in a spiral arm of the galaxy? \textbf{B}
14. Sketch the HR diagram for stars indicated by F.
15. Sketch the HR diagram for indicated by H.