## Exercise E1: Finding Your Way Around the Sky

Student name: $\qquad$ Class: $\qquad$ Date: $\qquad$

Check the box with the correct answer.
Question 1: What is the orientation of the Big Dipper asterism in winter?a. It appears upside down.b. It sits with its handle downwards.c. It appears to sit upright, resting upon its bowl.d. The Big Dipper is not visible in the winter.

Question 2: Polaris is part of which constellation? (Hint: Select Constellations from the Settings view to display IAU Boundaries and Show Names).a. Cepheusb. Dracoc. Ursa Minord. Ursa Major

Question 3: What happens to the position of Polaris in your sky as time advances over a period of a year?a. It remains absolutely fixed, and does not change its position.b. The north celestial pole revolves about Polaris.c. It revolves in a very small circle around the north celestial pole.d. Its altitude changes by + and - 23.5 degrees throughout the year because of the tilt of the Earth's spin axis.

Question 4: What is the relationship between the altitude of Polaris and the latitude of the observer?a. There is no relationship between these two parameters.b. The altitude of Polaris is almost the same as the latitude of the observer.c. The altitude of Polaris is almost the equal to 90 degrees minus the latitude of the observer.d. The latitude equals the altitude of Polaris minus the altitude of the North celestial Pole.

Question 5: What is the nearest star to the south celestial pole, as shown in the Main Window? (Hint: Use the Search facility to locate these stars and zoom in towards the SCP. Then use the Angular Separation Tool to measure their angular distance from the SCP.)a. Chi Octantisb. HIP 60041c. HIP 112355d. Sigma Octantis

