**Ans key Formal Formative 3**

**Topics: 5.4, 5.5 and 5.6**

 **Total Marks: 25**

1. Here is a drawing of the solar system. /10



Name the bodies lettered A–E.

**G**

1. A: \_\_\_\_\_\_\_\_Sun\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. B: \_\_\_\_\_\_\_Mercury\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. C: \_\_\_\_\_\_\_\_Jupiter\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. D: \_\_\_\_\_\_\_\_Saturn\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. E: \_\_\_\_\_\_\_\_\_Neptune\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Name the lines marked F: \_\_\_\_Orbits\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Which planet is the smallest one?

\_\_\_\_\_\_\_\_\_\_\_\_Mercury\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What do the dots marked G on the diagram represent?

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_ASteroids\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What Earth movement causes day and night?

 \_\_\_\_\_\_\_\_Earth’s spinning in its own axis/ Rotation \_

1. How long does the Earth takes to complete one complete rotation in its own axis?

 \_\_\_\_\_\_\_\_\_\_\_\_\_24 hours/ 1 day

1. Complete the following sentences. Choose from the following words: /6

lengthen disappear appears towards shorten spins away from

1. The Sun \_\_\_\_\_\_ appears \_\_\_\_\_\_\_\_\_\_\_\_ to move across the sky every day.
2. Shadows \_\_\_\_\_ shorten \_\_\_\_\_\_\_\_\_\_\_\_\_ from early morning to midday.
3. Shadows \_\_\_\_\_ lengthen \_\_\_\_\_\_\_\_\_\_\_\_\_ towards evening.
4. The Earth \_\_\_\_ spins \_\_\_\_\_\_\_\_\_\_\_\_\_\_ on its axis.
5. The side of the Earth facing \_\_\_\_ towards \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the Sun has day.
6. The side of the Earth facing \_\_\_\_\_ away from \_\_\_\_\_\_\_\_\_\_\_\_\_ the Sun has night.



 **B**

**A**

**D**

**C**

 What do the letters A-D represent? /4

1. A:\_\_\_\_Sun\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. B:\_\_\_\_\_Earth\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. C:\_\_\_\_\_Moon\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. D\_\_\_\_\_\_Orbit\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the imaginary stick passing through the Earth from the north pole to the south pole? /1

\_\_\_\_\_\_\_\_\_\_Axis\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write your answer in one or two sentences. /4
2. What is an asteroid?

\_\_\_\_\_\_It is the rocky masses that orbit the Sun which is smaller than the planets. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What are the celestial bodies in the solar system other than the Sun?

Planets, moons, asteroids, and comets.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How does the day and night occur?

The day and night occurs because of the rotation/ spinning of the Earth in its own axis.

1. Explain how does the length of the shadow changes from morning to evening.

The length of the shadow will decrease from morning to mid day and increase from midday towards evening.