



G. Science

Worksheet 2 : 17/10/2020

Class - VII

**CHAPTER 12 : THE SOLAR SYSTEM AND OUR EARTH****Instructions:**

- ✓ Read the chapter in your book - quickly and thoroughly, preferably more than once.
  - ✓ Contact me in case of any difficulty in understanding.
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**Analytical Question (Mark-2)****1. Explain how the sun and the other stars produce heat and light.**

Ans.: The sun and other stars are burning gaseous body. They contain mainly hydrogen and helium gases. The atoms of hydrogen gas mixing with one another, turn into the atoms of helium. A lot of energy is produced in this process. This energy spreads as heat and light. Thus the sun and the other stars produce heat and light.

**2. What is comet? How does its tail create? Set an example of your acquainted comet.**

Ans.: The comet is a wonderful luminary body in our solar system. They are made of solid (gas, ice, dust). But it turns into gas easily when it gets heat. When the comets go near the sun, then it is scattered in the sky turning into gas or solid due to the heat of the sun. Then it turns into watchable tail like broom.

Sometimes it is found from the earth.

One of my acquainted comet is Halley's comet. Halley's comet appears every 75 years in the sky of the earth. It appeared in 1911 and 1986. It will appear again in 2062.

### **3. Why does it rain heavily in Bangladesh in between June and July?**

Ans.: It rains heavily in Bangladesh in between June and July. Because, Bangladesh is situated in Northern Hemisphere. Bangladesh comes closer to the sun on the 21st June. So 21st June is the longest day and shortest night in the Northern Hemisphere. The sun reaches its northern most limits on 21st June and the date is known as summer solstice. But during this time, there has been heavy rainfall due to monsoon wind in Ashar and Srabon.

### **4. Why is Pluto not the member of the solar system?**

Ans.: Pluto was considered a planet in the past. Each of the planets has its own orbit to revolve round the sun, but Pluto has no orbit. Moreover, it is small and it is an incomplete planet. So, in 2009, scientists decided that Pluto is not a planet. For all these stated above, Pluto is not considered a planet

### **5. Discuss the effect of change of seasons over human being.**

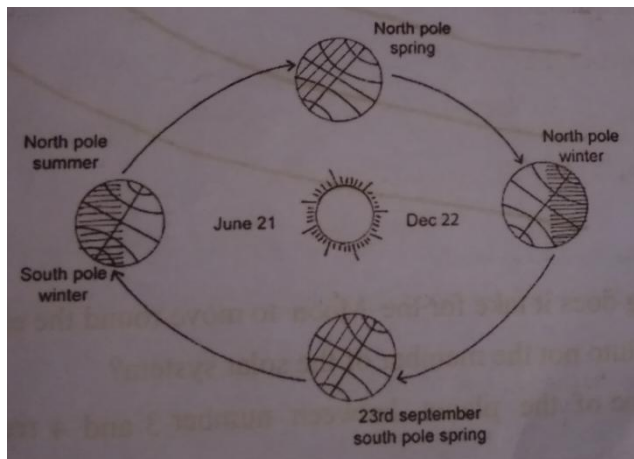
Ans.: The change of seasons occur as a result of annual motion of earth. The change of seasons has great impact over human being. No change of season would take place if the earth does not move round the sun. In this case perhaps our country would enjoy dry season all the year. No winter season would come or vice-versa. Due to the change of seasons, different crops grow in Bangladesh. Otherwise only few crops would grow and it would become difficult to live. In Russia and other cold countries, man would not be able to survive if the season does not change. Most of the parts of these countries remain covered with ice almost all the year round. At that time no crops grows.

When summer season comes, the ice melts. Then men grow crops., i. e. if the summer does not come, they would not be able to grow crops.

## Creative Questions

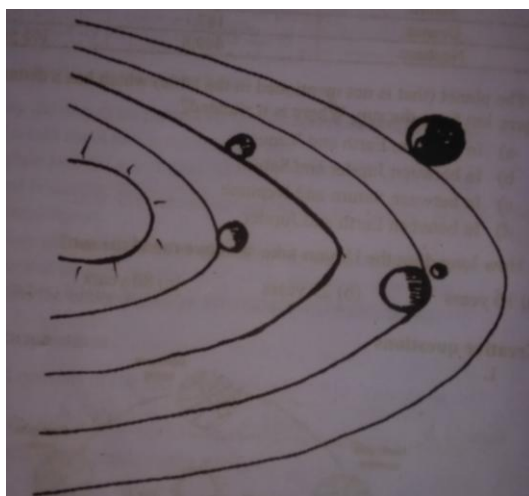
(Solve yourself)

1.



- a) When do the smallest nights and longest days occur at southern hemisphere? Explain with figure.
- b) What will be the length of the day and night on 30th December at the Northern Hemisphere? Answer the question with logical ground.

2.



- a) Which one of the planet between number 3 and 4 remains dark? Explain.
- b) Why is the planet no. 4 not suitable for human habitation in spite of having much similarities with planet no. 3? Explain with argument.