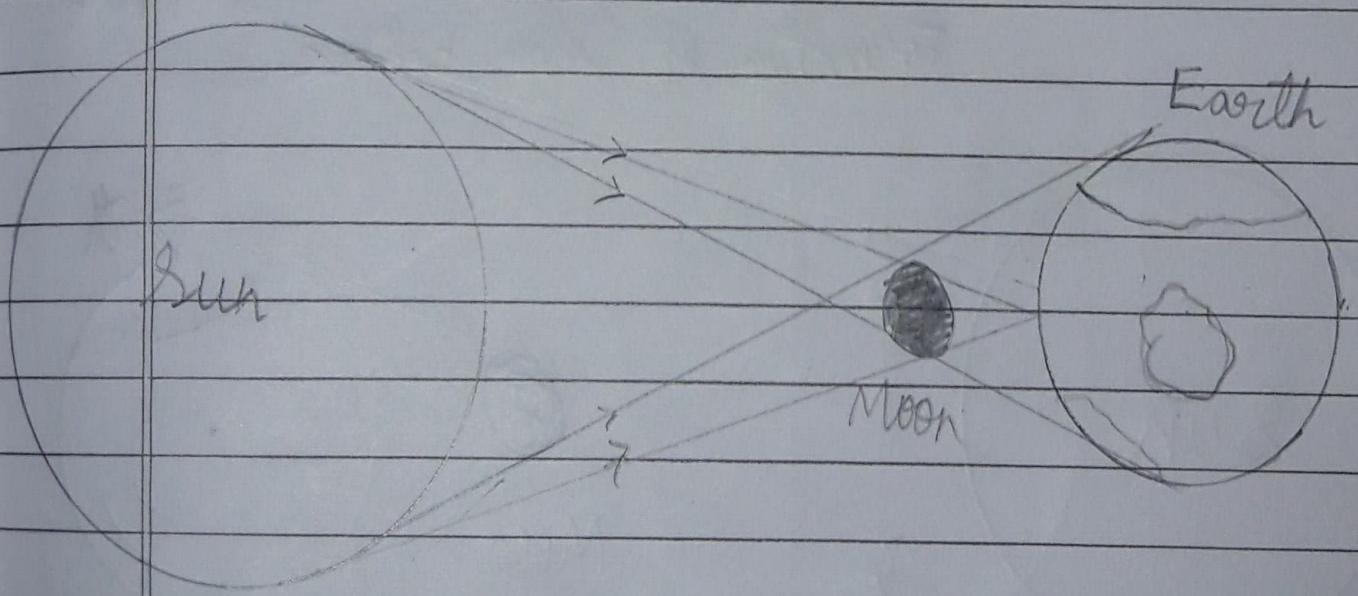


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40. An annular solar eclipse occurs when only the tip of the umbra of the moon falls on the earth. From the point D, the sun will appear to be completely obstructed by the moon, only the outer rim of the sun, called corona, is then visible for a very short time which is known as the diamond ring. The formation of annular solar eclipse is shown below.



Formation of Annular Solar eclipse

34. At noon the sun is directly overhead. So, the sun rays fall vertically on the body. Hence the shadow is very short. In the morning and evening, the sun rays fall in an inclined position. So, the shadows are long.

35. Eclipses are the examples of formation of shadows in nature. There are two kinds of eclipses:

1. Lunar eclipse (the eclipse of the moon), and

2. Solar eclipse (the eclipse of the sun).

Lunar eclipse is due to the formation of shadow of earth on moon and solar eclipse is due to the formation of shadow of earth on moon and solar eclipse is due to the formation of shadow of moon on earth.