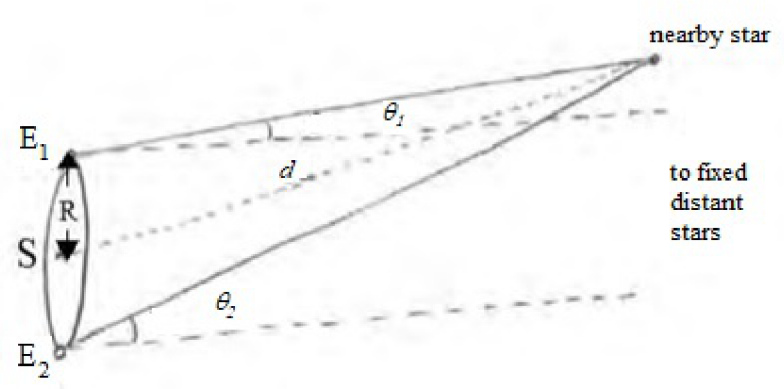
Question Number	Answer	Mark
17(a)	Find (angular) displacement of the star (as Earth moves around the Sun) over a 6 month period **Or** find (angular) displacement of the star (as Earth moves around the Sun) over a diameter of the Earth's orbit **(1)** Measurements are made against the background of (more) distant stars **(1)** Radius/diameter of the Earth's orbit about the Sun must be known/measured (to calculate the distance to the star) **(1)** [For full credit, it must be clear that angles are being measured] [Marks can be obtained from an annotated diagram]  [Accept the symmetrical diagram seen in many textbooks]	**3**
17(b)	**EITHER** Distant galaxies are receding **(1)** The velocity of recession can be calculated from the redshift **(1)** A graph of recessional velocity against distance has a gradient equal to the Hubble constant H_0 **(1)** The age of the universe is $1/H_0$ **(1)** **OR** Distant galaxies are receding **(1)** The redshift can be calculated **(1)** A graph of redshift against distance has a gradient equal to H_0/c **(1)** The age of the universe is $1/H_0$ **(1)**	**4**
	Total for question 17	**7**