

GA 1

1. Briefly describe the classification of galaxies in the *Hubble sequence* (tuning fork), paying attention to such aspects as *colour*, overall shape, and notable features of the galaxies. [4 marks]
2. What are *Cepheid variables*. How are they used to determine distances to galaxies? [4 marks]
3. One parsec (1 pc) is the distance at which one astronomical unit (by definition 1 AU=149597870700 m) subtends an angle of one arc second. Calculate the length of a parsec in meters, and in light years.[2 marks]