

Q1. Cygnus A may be the nearest quasar yet discovered.

- (a) Cygnus A has a redshift, z , of 0.057.
Calculate the distance to Cygnus A. State an appropriate unit.

answer = unit =

(4)

- (b) The first quasars were discovered in the 1950s. What property of quasars led to their discovery?

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(1)

(Total 5 marks)