

1997 Paper 1 Question 10

Programming in Modula-3

Describe the facilities in Modula-3 for modelling data by means of **ARRAYs**, **RECORDs** and **REFerences**. [12 marks]

Illustrate your answer by specifying some data types to model a map. This should include points (specifying latitude and longitude), junctions (specifying a point and the roads incident at the junction) and road segments (specifying the junctions at each end, a name and some intermediate points between the ends). [8 marks]