

Geography

Section II (continued)

Marks

Question 18 (10 marks)

Refer to Sources I and K.

- (a) Identify TWO human activities that may place the Avon–Heathcote Estuary at risk. 2

Heavy industry
Sewage works

- (b) Identify a management strategy currently used in the Avon–Heathcote Estuary, and evaluate its likely success in terms of the ecological sustainability of this ecosystem. 4

At present there is a wildlife Reserve 'Te Huingi Manu', and it is home to thousands of different species of birds, however a sewage works resides on the banks of this Reserve, and hence maybe affecting the sustainability of this ecosystem. A landfill site and heavy industries are also nearby, all have wastes running into the estuary, so although at present, the wildlife reserve may be sustainable, with all of these human impacts, it may not remain ecologically sustainable for much longer.

Question 18 continues on page 16

Question 18 (continued)

- (c) What are TWO important questions that a geographer could ask to determine the validity and reliability of the 'Selected Bird Numbers' information? 4

How often are nesting sites visited
and at what time of day?
Is there a tag and release system
in operation to assess the
validity?

End of Question 18