

Write your name here	
Surname	Other names
Edexcel Principal Learning	Centre Number
	Candidate Number
Environmental and Land-based Studies	
Level 3	
Unit 7: Sustainable Development of Resources	
Thursday 10 June 2010 – Morning Time: 1 hour	Paper Reference ES307/01
You do not need any other materials.	Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 50.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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1 Study Figure 1(a) which shows world copper reserves and production in millions of tonnes, and Figure 1(b) which shows copper prices per tonne in US \$.

Copper: a non-renewable resource		
	1975	2008
Proven reserves of copper ore (million tonnes)	409.5	165.5
Annual production of copper (million tonnes)	7.3	9.5

Figure 1(a)

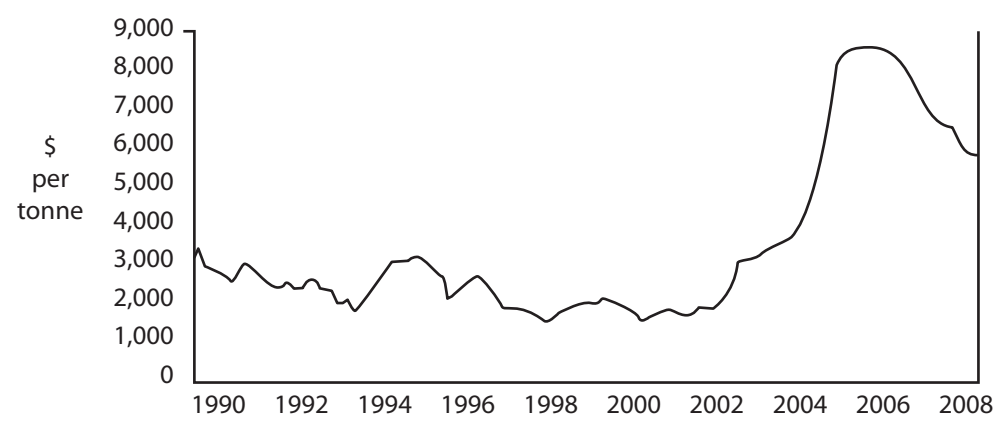


Figure 1(b)

(a) What is the evidence in Figures 1(a) and 1(b) to suggest that the world's supplies of copper ore are running low?

(3)

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(b) What is meant by the term sustainable resource development (SRD)?

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Study Figure 1(c) which shows some causes and consequences of the closure of a copper mine in Zambia (one of the world's major copper mining countries).

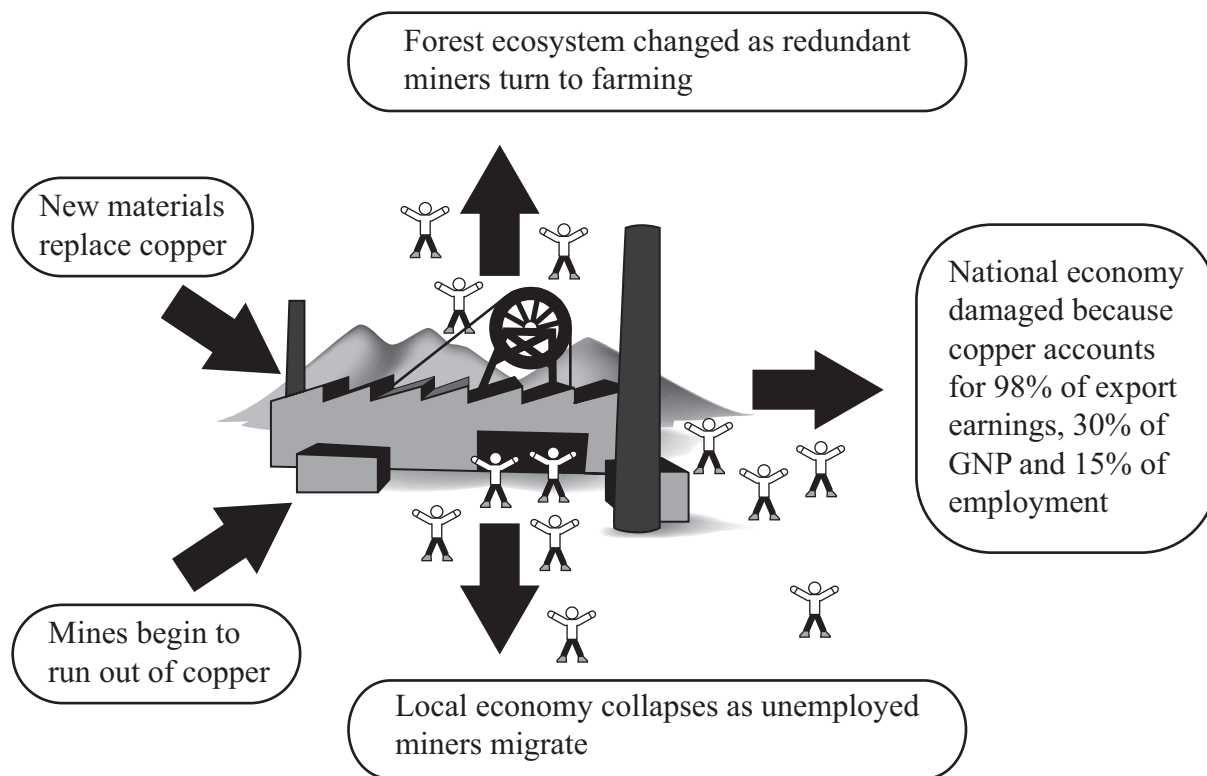


Figure 1(c)

(c) Discuss the importance of **SRD**. Refer to Figure 1(c) and your own example(s).

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(d) For a named environmental or land-based management plan, describe how it was produced to promote **SRD**.

(8)

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(e) Explain how this, or similar management plans, might be evaluated.

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(Total for Question 1 = 30 marks)



2 Study Figure 2 which shows an island with a growing population and various natural resources that the government wishes to develop in the future. The island has been dependent for its energy on power stations using coal and oil. The government had decided upon a future energy supply based on nuclear power. However, the newly elected government has employed you as a consultant to recommend a sustainable resource development (SRD) plan for its future energy supply, including a review of the nuclear power option.

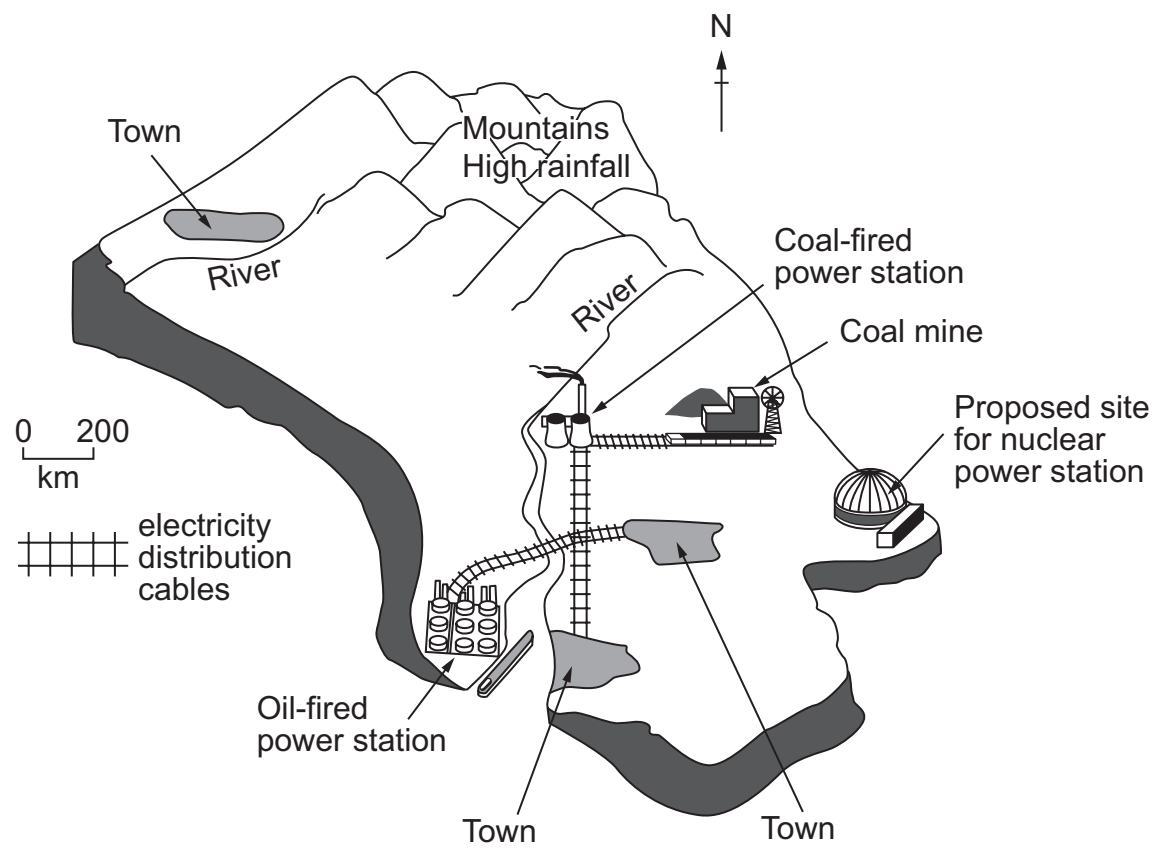


Figure 2

(a) Suggest **two** sustainability needs or priorities on which this **SRD** plan could be based.

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(b) The proposal to build a nuclear power station was proving controversial.

Suggest why the proposal was controversial. Make reference to the views and influence of a variety of stakeholders.

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