

2.6 Environmental Consequences of Connectivity

Name: _____ Class: _____ Date: _____

Total: 12 marks

KEY WORDS travellers 旅行者 • diffusion of crops and pathogens 作物与病原体的传播 • environmental consequences 环境影响
• diffusion 传播

Objective

Build the skills to explain **environmental consequences** 环境影响 of exchange.

You must be able to:

- state what the CED says diffused along trade routes
- explain why crops and pathogens appear in one sentence
- name the disease the CED specifies
- explain why this is the unit's least intended consequence

1 Worked examples

Study these first. Each one shows the method for a task used later.

■ What diffused

There was **continued diffusion of crops and pathogens**, with epidemic diseases, including the bubonic plague, along trade routes.

■ One sentence, two effects

A route that carries a crop carries a pathogen. The CED puts them together because they travel by the same mechanism, with opposite consequences for the population.

■ The disease

The bubonic plague is the CED's named example — a consequence of connection that no participant in the network wanted or foresaw.

■ Unintended

Every other consequence in unit 2 was sought by someone: merchants wanted profit, empires wanted revenue, travellers wanted knowledge. This one was sought by nobody, which is why it belongs in a unit about networks rather than about intentions.

2 Practice

2.1 State what the CED says diffused along trade routes. [2]

2.2 Explain why crops and pathogens appear together. [2]

2.3 This consequence was intended by nobody.

(a) State what everyone else in unit 2 sought. [2]

(b) State why this one still belongs in the unit. [1]

3 Exam-style questions

3.1 The CED's named epidemic disease is [1]

- **A** smallpox
- **B** the bubonic plague
- **C** malaria
- **D** cholera

3.2 Crops and pathogens travelled by [1]

- **A** different mechanisms
- **B** the same mechanism
- **C** no mechanism
- **D** deliberate transport only

3.3 A network built to move goods also moves a disease.

(a) State what this shows about networks. [1]

(b) Explain why the consequence cannot be designed out.

[2]

Solutions

2.1 crops and pathogens, with epidemic diseases including the bubonic plague.

2.2 a route carrying a crop carries a pathogen; they travel by the same mechanism with opposite consequences.

2.3 (a) merchants sought profit; empires sought revenue; travellers sought knowledge.
(b) the unit is about what networks do, not what participants intend.

3.1 B. the CED names it.

3.2 B. the same routes and vessels.

3.3 (a) that their effects exceed their purpose. (b) the carriage of goods and of pathogens use the same ships, roads and people, so one cannot be permitted and the other refused.