

5.11 Challenges of Contemporary Agriculture

Name: _____ Class: _____ Date: _____ **Total: 10 marks**

KEY WORDS food desert 食物荒漠 • gmo 转基因 • urban farming 城市农业
• local-food 本地食物 • gmos 转基因生物

Objective

Build the skills to answer exam questions on **challenges of contemporary agriculture** 当代农业的挑战.

You must be able to:

- define a **food desert** 食物荒漠
- summarise the **GMO** 转基因 debate
- explain the **local-food** 本地食物 and organic movements
- explain **urban farming** 城市农业

1 Worked examples

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

■ Food deserts

A **food desert** is an area, often poor or urban, with little access to affordable fresh, healthy food — only convenience stores may be nearby.

■ GMO debate

Genetically modified organisms can raise yields and resist pests, but critics raise concerns over health, environment, and corporate control of seeds.

■ Local, organic, urban

Local-food and **organic** movements favour food grown nearby without synthetic chemicals; **urban farming** grows food in cities on rooftops, lots, and gardens.

2 Practice

2.1 Define a food desert. [2]

2.2 State one argument for and one against GMOs. [2]

2.3 City residents grow vegetables on rooftops and vacant lots.

(a) Name this practice. [1]

(b) State one benefit it offers a food desert. [1]

3 Exam-style questions

3.1 A neighbourhood with only convenience stores and no fresh-food shops is a [1]

- | | |
|---|---|
| A | B |
| C | D |
- A** food desert
B commodity chain
C greenbelt
D relict region

3.2 A common argument in favour of GMO crops is that they can [1]

- | | |
|---|---|
| A | B |
| C | D |
- A** always lower yields
B resist pests and raise yields
C remove the need for any farming
D end all pollution

3.3 A community starts a local-food, organic cooperative.

(a) State one benefit of buying local, organic food. [1]

(b) State one challenge of the movement. [1]
