

Food Culture: Nature and Environment

Food Culture · Answer Key · 15 Questions

1. Which of these common ingredients is produced by the secretion of the wax glands of worker honeybees?

- A) Royal Jelly
- B) Beeswax**
- C) Propolis
- D) Pollen

2. What is the primary food source for the farmed Black Soldier Fly larvae, which are increasingly used as a sustainable animal feed?

- A) Living vertebrate prey
- B) Organic waste**
- C) Synthesized amino acids
- D) Freshwater algae

3. Which part of the cacao tree provides the seeds used to produce chocolate?

- A) The fruit pod**
- B) The flower nectar
- C) The outer bark
- D) The taproot

4. What is the biological process that turns grape juice into wine, involving the conversion of sugars into alcohol by yeast?

- A) Oxidation
- B) Pasteurization
- C) Fermentation**
- D) Carbonation

5. Which marine crustacean is a keystone species in the Antarctic food web and is commercially harvested for omega-3 supplements?

- A) Blue Crab
- B) Antarctic Krill**
- C) Lobster
- D) Prawn

6. What type of organism is a truffle, which is highly prized in culinary cultures for its distinct aroma?

A) A subterranean fungus

- B) A root vegetable
- C) A parasitic plant
- D) A lichen

7. Which insect species is the most widely consumed edible insect globally?

A) Cricket

- B) Dragonfly
- C) Cicada
- D) Mealworm

8. In environmental terms, why is the cultivation of bivalve mollusks like oysters considered carbon-negative?

A) They release oxygen

B) They sequester carbon in their shells

- C) They don't require water
- D) They grow without light

9. What is the main source of the bright red pigment 'carmine' (E120) used in the food industry?

A) Beetroot extract

B) Crushed cochineal insects

- C) Synthetic coal tar
- D) Red bell peppers

10. Which plant family includes crops like broccoli, cauliflower, kale, and Brussels sprouts, all derived from the same ancestral species?

A) Solanaceae

B) Brassicaceae

- C) Fabaceae
- D) Poaceae

11. What is the primary environmental impact associated with the industrial production of palm oil?

A) Soil erosion

B) Deforestation

- C) Water acidification
- D) Ozone depletion

12. Which grain is unique because it grows in standing water during its cultivation cycle?

- A) Wheat
- B) Barley
- C) Rice**
- D) Millet

13. What biological process do plants perform that is the ultimate source of energy for nearly all human food chains?

- A) Respiration
- B) Photosynthesis**
- C) Transpiration
- D) Nitrogen fixation

14. Which animal's milk is the most commonly used for the production of authentic Mozzarella di Bufala?

- A) Cow
- B) Water Buffalo**
- C) Goat
- D) Sheep

15. What determines the color of a chicken egg yolk?

- A) The chicken's age
- B) The chicken's diet**
- C) The egg's incubation temperature
- D) The air humidity