ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 3 · 25 QUESTIONS

Living Together - Food and Ecosystems — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **A forest absorbs carbon dioxide from the air. Which process is responsible?**

A respiration

B combustion

C decomposition in the soil

D photosynthesis

Understand It with Pulse | Flag a mistake

2 **Seabirds on a rocky island eat fish. If the fish population falls, what happens to the seabirds?**

- A they eat more fish
- B they move to the sea
- C their numbers fall
- D their numbers rise

Understand It with Pulse | Flag a mistake

3 **Red apples contain vitamin C. What is vitamin C needed for?**

- A making red blood cells
- B good eyesight at night
- C healthy skin and gums
- D strong bones and teeth

Understand It with Pulse | Flag a mistake

4 **A peach contains a stone. What is inside the stone?**

- A a leaf
- B a root
- C a seed
- D a flower

Understand It with Pulse | Flag a mistake

5 **A sunflower grows taller over the summer. Where does most of the extra mass come from?**

- A carbon dioxide from the air
- B water absorbed from the soil
- C sunlight captured by the leaves
- D minerals absorbed from the soil

Understand It with Pulse | Flag a mistake

6 **A honeybee is an insect. How many legs does it have?**

A 6

B 10

C 8

D 4

Understand It with Pulse | Flag a mistake

7 **What is glucose made into for storage in a plant?**

A protein

B chlorophyll

C cellulose

D starch

Understand It with Pulse | Flag a mistake

8 **A pondweed plant releases 18 bubbles of oxygen in 2 minutes. How many bubbles does it release per minute?**

- A 9
- B 18
- C 10
- D 8

Understand It with Pulse | Flag a mistake

9 **A quadrat of area 20 square metres contains on average 4 daisies. Estimate the number of daisies in a field of 200 square metres.**

- A 80
- B 400
- C 40
- D 20

Understand It with Pulse | Flag a mistake

10 **A field has 5000 kg of grass. If 5 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

A 250 kg

B 125 kg

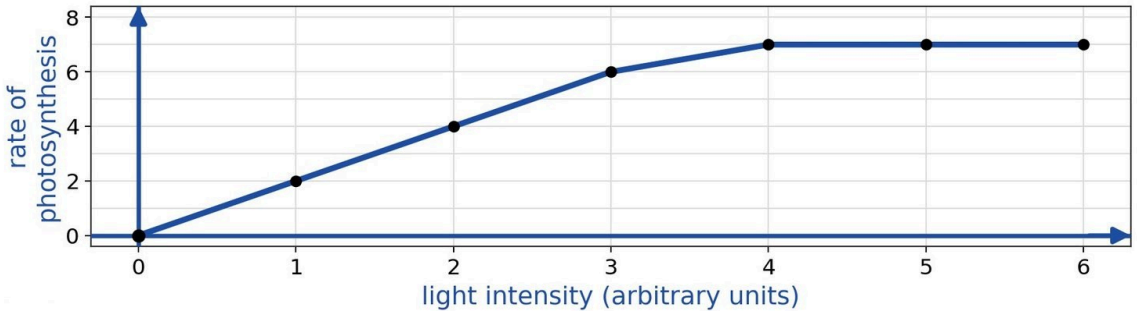
C 500 kg

D 2500 kg

Understand It with Pulse | Flag a mistake

11

The graph shows the rate of photosynthesis at different light intensities. At which light intensity does the rate first reach its maximum?



A 3

B 2

C 6

D 4

Understand It with Pulse

Flag a mistake

12 **Where is carbon stored long term?**

A in living organisms only

B in fossil fuels

C in rain water

D in the air as oxygen

Understand It with Pulse | Flag a mistake

13 **Producers in a food chain hold 100000 kJ of energy. About 10 percent passes to the primary consumers. How much energy reaches them?**

A 100000 kJ

B 5000 kJ

C 20000 kJ

D 10000 kJ

Understand It with Pulse | Flag a mistake

14 **Why are quadrats placed at random?**

- A to cover the whole area
- B to find the rarest plants
- C to avoid bias
- D to save time in the field

Understand It with Pulse | Flag a mistake

15 **What shape is a pyramid of biomass?**

- A a circle
- B the same width all the way up
- C wide at the bottom, narrow at the top
- D narrow at the bottom, wide at the top

Understand It with Pulse | Flag a mistake

16 **Producers in a food chain have a biomass of 2000 kg. About 10 per cent of biomass passes to the next level. What is the biomass of the primary consumers?**

- A 400
- B 20
- C 2000
- D 200

Understand It with Pulse | Flag a mistake

17 **What happens to excess amino acids in the body?**

- A they are turned into glucose
- B they are stored as glycogen
- C they are breathed out
- D they become urea

Understand It with Pulse | Flag a mistake

18 **Why is decay important in an ecosystem?**

A it makes the soil warmer

B it recycles nutrients

C it stops plants growing

D it removes carbon dioxide

Understand It with Pulse | Flag a mistake

19 **What is the water cycle driven by?**

A wind only

B energy from the soil

C energy from the Sun

D gravity only

Understand It with Pulse | Flag a mistake

20 **Which of these is a use of glucose in a plant?**

- A transpiration
- B photosynthesis
- C pollination
- D respiration

Understand It with Pulse | Flag a mistake

21 **A pondweed plant releases 24 bubbles of oxygen in 3 minutes. How many bubbles does it release per minute?**

- A 16
- B 7
- C 9
- D 8

Understand It with Pulse | Flag a mistake

22 **What is one effect of global warming?**

A all deserts become wetter

B sea levels rise

C the air holds less water

D more ice forms at the poles

Understand It with Pulse | Flag a mistake

23 **Producers in a food chain hold 10000 kJ of energy. About 10 percent passes to the primary consumers. How much energy reaches them?**

A 2000 kJ

B 10000 kJ

C 500 kJ

D 1000 kJ

Understand It with Pulse | Flag a mistake

24 **What is a quadrat used for?**

A to measure the height of trees

B to count every plant exactly

C to estimate a population

D to catch small animals

Understand It with Pulse | Flag a mistake

25 **Producers in a food chain have a biomass of 10000 kg. About 10 per cent of biomass passes to the next level. What is the biomass of the primary consumers?**

A 1000

B 2000

C 10000

D 100

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	D	**10.**	A	**19.**	C
2.	C	**11.**	D	**20.**	D
3.	C	**12.**	B	**21.**	D
4.	C	**13.**	D	**22.**	B
5.	A	**14.**	C	**23.**	D
6.	A	**15.**	C	**24.**	C
7.	D	**16.**	D	**25.**	A
8.	A	**17.**	D		
9.	C	**18.**	B		

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