ENGLAND GCSE BIOLOGY 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 **Seabirds are affected by plastic pollution. How does plastic harm them?**

A they eat it by mistake

B it helps them fly

C it makes them stronger and healthier

D it keeps them warm

Understand It with Pulse | Flag a mistake

2 **A honeybee collects nectar. What is nectar?**

A a mineral solution

B a fatty substance

C a sugary liquid

D a protein-rich food

Understand It with Pulse | Flag a mistake

3 **A sunflower makes glucose in its leaves. Which gas does it take in for photosynthesis?**

A hydrogen gas from the air

B carbon dioxide

C oxygen gas from the air

D nitrogen gas from the air

Understand It with Pulse | Flag a mistake

4 **Red apples are cut and left in air. Why do they turn brown?**

- A they dry out in the air
- B enzymes react with oxygen
- C they ferment into alcohol
- D they freeze in the cold

Understand It with Pulse | Flag a mistake

5 **A forest is cut down. What happens to the carbon stored in the trees?**

- A it is released
- B it is stored forever
- C it disappears
- D it turns to oxygen

Understand It with Pulse | Flag a mistake

6 **A peach is a fruit. Which part of the flower does it develop from?**

A the ovary

B the stigma

C the anther

D the petal

Understand It with Pulse | Flag a mistake

7 **How does photosynthesis affect carbon dioxide in the air?**

A it removes carbon dioxide

B it turns carbon dioxide into oxygen

C it stores carbon dioxide in soil

D it releases carbon dioxide

Understand It with Pulse | Flag a mistake

8 **A field has 2000 kg of grass. If 5 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

- A 50 kg
- B 100 kg
- C 1000 kg
- D 200 kg

Understand It with Pulse | Flag a mistake

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

- A 10
- B 200
- C 100
- D 1000

Understand It with Pulse | Flag a mistake

10 **A pondweed plant releases 24 bubbles of oxygen in 4 minutes. How many bubbles does it release per minute?**

- A 7
- B 5
- C 12
- D 6

Understand It with Pulse | Flag a mistake

11 **What is a habitat?**

- A where an organism lives
- B all the organisms in an area
- C a food web
- D a population

Understand It with Pulse | Flag a mistake

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

A the same width all the way up

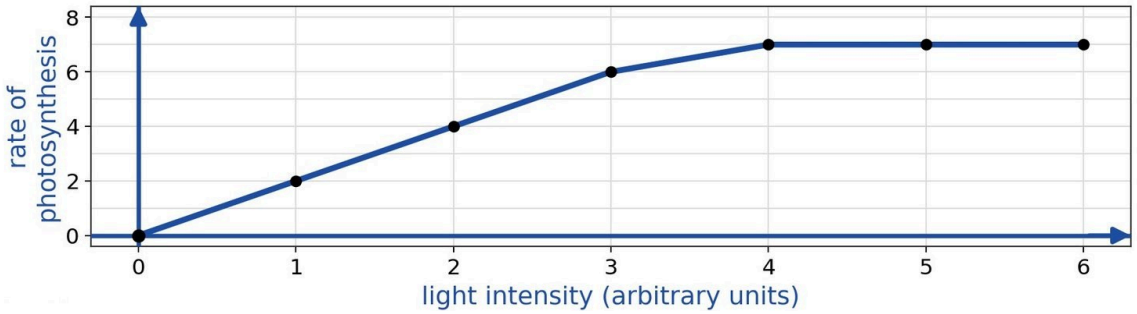
B narrow at the bottom, wide at the top

C wide at the bottom, narrow at the top

D a circle

Understand It with Pulse | Flag a mistake

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



A 6

B 2

C 4

D 3

Understand It with Pulse | Flag a mistake

14 **What is glucose used to make in cell walls?**

A glycogen

B amino acids

C starch

D cellulose

Understand It with Pulse | Flag a mistake

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

A it stops plants growing

B it makes the soil warmer

C it recycles nutrients

D it removes carbon dioxide

Understand It with Pulse | Flag a mistake

16 **What happens to light intensity when the distance from a lamp doubles?**

- A it halves
- B it falls to a quarter
- C it stays exactly the same
- D it doubles

Understand It with Pulse | Flag a mistake

17 **Why repeat a quadrat sample and take a mean?**

- A to use up the time available
- B to find more species
- C for a reliable result
- D to practise using the quadrat

Understand It with Pulse | Flag a mistake

18 **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 10000 kJ
- C 20000 kJ
- D 5000 kJ

Understand It with Pulse | Flag a mistake

19 **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

20 **A quadrat of area 50 square metres contains on average 4 daisies. Estimate the number of daisies in a field of 500 square metres.**

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

Understand It with Pulse | Flag a mistake

21 **Where in a leaf does photosynthesis happen?**

- A in the chloroplasts
- B in the vacuole
- C in the nucleus
- D in the mitochondria

Understand It with Pulse | Flag a mistake

22 **How does combustion affect carbon dioxide in the air?**

A it removes carbon dioxide

B it turns carbon dioxide into oxygen

C it releases carbon dioxide

D it stores carbon dioxide in rock

Understand It with Pulse | Flag a mistake

23 **A field has 2000 kg of grass. If 10 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

A 100 kg

B 2000 kg

C 400 kg

D 200 kg

Understand It with Pulse | Flag a mistake

24 **A pondweed plant releases 24 bubbles of oxygen in 2 minutes. How many bubbles does it release per minute?**

A 12

B 11

C 13

D 24

Understand It with Pulse | Flag a mistake

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

A energy from the Sun

B wind only

C gravity only

D energy from the soil

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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