ENGLAND GCSE COMBINED SCIENCE AQA SYNERGY HIGHER · UNIT 2 · 25 QUESTIONS

Transport over Larger Distances — 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 yellow school bus carries children to school. Which blood vessel carries blood away from the heart, like a bus leaving the station?

A a ventricle

B a capillary

C an artery

D a vein

Understand It with Pulse

Flag a mistake

2 **A passenger train carries people around the country. Which part of the blood is like the train, carrying oxygen around the body?**

A plasma

B red blood cells

C white blood cells

D platelets

Understand It with Pulse | Flag a mistake

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

A oxygen gas from the air

B nitrogen gas from the air

C hydrogen gas from the air

D carbon dioxide

Understand It with Pulse | Flag a mistake

4 **Red apples provide energy. Which nutrient in apples provides most energy?**

- A protein, for growth
- B fibre, for digestion
- C carbohydrates
- D fat, for insulation

Understand It with Pulse | Flag a mistake

5 **A sandwich contains bread, cheese and lettuce. Which enzyme starts breaking down the bread in the mouth?**

- A protease
- B pepsin
- C amylase
- D lipase

Understand It with Pulse | Flag a mistake

6 **A school lunch tray holds a meal with bread, cheese and an apple. Which food group is the bread from?**

- A vitamins, for health
- B fats, for insulation
- C carbohydrates
- D proteins, for growth

Understand It with Pulse | Flag a mistake

7 **Which blood vessel carries blood away from the heart?**

- A a capillary
- B a ventricle
- C a vein
- D an artery

Understand It with Pulse | Flag a mistake

8 **Blood is 55 percent plasma. How much plasma is there in 200 mL of blood?**

- A 120 mL
- B 110 mL
- C 100 mL
- D 220 mL

Understand It with Pulse | Flag a mistake

9 **Which neurone carries the impulse from the CNS to the effector?**

- A a motor neurone
- B a sensory neurone
- C a relay neurone
- D a receptor neurone

Understand It with Pulse | Flag a mistake

10 **Which type of respiration releases the most energy per glucose molecule?**

A fermentation

B photosynthesis

C anaerobic respiration

D aerobic respiration

Understand It with Pulse | Flag a mistake

11 **Where are villi found?**

A the small intestine

B the mouth

C the stomach

D the large intestine

Understand It with Pulse | Flag a mistake

12 **Which component of blood carries oxygen?**

A white blood cells

B plasma

C red blood cells

D platelets

Understand It with Pulse | Flag a mistake

13 **Lipase breaks lipids down into fatty acids and what else?**

A starch

B sugars

C glycerol

D amino acids

Understand It with Pulse | Flag a mistake

14 **Which plant tissue carries sugars around the plant?**

A cortex

B phloem

C xylem

D pith

Understand It with Pulse | Flag a mistake

15 **What is the name for the gap between two neurones?**

A a receptor

B a dendron

C an effector

D a synapse

Understand It with Pulse | Flag a mistake

16 **Which gland makes insulin?**

A the pituitary

B the adrenal gland

C the pancreas

D the thyroid

Understand It with Pulse | Flag a mistake

17 **Where does aerobic respiration happen?**

A in the vacuole

B in the chloroplasts

C in the nucleus

D in the mitochondria

Understand It with Pulse | Flag a mistake

18 **Which pH is best for most enzymes in the small intestine?**

A very acidic

B strongly alkaline

C strongly acidic

D slightly alkaline

Understand It with Pulse | Flag a mistake

19 **Why does blood go to the lungs?**

A to pick up oxygen

B to be pumped

C to be filtered

D to pick up carbon dioxide

Understand It with Pulse | Flag a mistake

20 **Which component of blood helps blood to clot?**

A red blood cells

B white blood cells

C platelets

D plasma

Understand It with Pulse | Flag a mistake

21 **What do guard cells do?**

A make chlorophyll

B open and close the stomata

C carry sugars down the stem

D absorb water from soil

Understand It with Pulse | Flag a mistake

22 **What is the job of a receptor?**

A to store information

B to detect a change

C to carry a message

D to make a response

Understand It with Pulse | Flag a mistake

23 **How do hormones travel around the body?**

A in the blood

B along nerves

C through the skin

D in the lymph only

Understand It with Pulse | Flag a mistake

24 **What is the word equation for aerobic respiration?**

- **A** glucose plus oxygen gives lactic acid
- **B** glucose plus oxygen gives carbon dioxide plus water
- **C** carbon dioxide plus water gives glucose plus oxygen
- **D** glucose gives lactic acid

Understand It with Pulse | Flag a mistake

25 **Which blood vessel has the thickest wall?**

- **A** a vein
- **B** a capillary
- **C** a ventricle
- **D** an artery

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.