ENGLAND GCSE BIOLOGY AQA HIGHER · FINAL EXAM · 50 QUESTIONS

# Final Exam — 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 to let Brett know so he can fix it.

**1** **Glass marbles are shaken in a tray. What does this model?**

- A particles disappearing completely
- B particles gaining energy
- C particles bonding together
- D particles freezing into place

Understand It with Pulse | Flag a mistake

**2** **A school lunch tray holds a bread roll, cheese and an apple. Which food test would show starch in the bread roll?**

- A Biuret turns purple
- B iodine turns blue-black
- C Sudan III turns red
- D Benedict's turns brick red

Understand It with Pulse | Flag a mistake

3 **A peach tree flowers in spring. What do bees carry between flowers?**

- A pollen
- B water
- C leaves
- D seeds

Understand It with Pulse | Flag a mistake

4 **A sunflower is left in bright light. Its leaves photosynthesise faster than in dim light. What else would increase the rate?**

- A less water in the soil
- B less chlorophyll in the leaves of the plant
- C a lower temperature
- D more carbon dioxide in the air

Understand It with Pulse | Flag a mistake

5 **A thermometer shows a runner's skin temperature falls after she starts sweating. Why?**

A sweat makes the blood thicker and slower

B sweat warms the skin

C sweat blocks heat loss

D evaporating sweat takes heat away

Understand It with Pulse | Flag a mistake

6 **A forest provides a habitat. What does habitat mean?**

A when an organism sleeps

B what an organism eats

C where an organism lives

D how an organism breeds

Understand It with Pulse | Flag a mistake

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

A it is stored forever

B it disappears

C it is released

D it turns to oxygen

Understand It with Pulse | Flag a mistake

8 **In which part of the cell cycle does the DNA copy itself?**

A after the cell splits

B before mitosis starts

C when the cell dies

D during cell division only

Understand It with Pulse | Flag a mistake

9 **A yellow school bus stops at a station. What happens to its speed?**

- A it becomes negative
- B it stays the same
- C it increases
- D it becomes zero

Understand It with Pulse | Flag a mistake

10 **Cases of a disease double every week. There are 50 cases now. How many cases will there be in 2 weeks?**

- A 400
- B 150
- C 200
- D 100

Understand It with Pulse | Flag a mistake

11 **A food contains 200 kJ of energy per 100 g. How much energy is in 300 g of the food?**

- A 550 kJ
- B 600 kJ
- C 650 kJ
- D 1200 kJ

Understand It with Pulse | Flag a mistake

12 **Body temperature is 37 degrees Celsius. It rises by 3 degrees. What is the temperature now?**

- A 42 degrees Celsius
- B 41 degrees Celsius
- C 39 degrees Celsius
- D 40 degrees Celsius

Understand It with Pulse | Flag a mistake

13 **Which bacterium is resistant to many antibiotics?**

A E. coli

B TB bacteria

C MRSA

D Salmonella

Understand It with Pulse | Flag a mistake

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

A it recycles nutrients

B it makes the soil warmer

C it stops plants growing

D it removes carbon dioxide

Understand It with Pulse | Flag a mistake

**15** **A cell is 12 mm long in a photograph. Its real length is 60 micrometres. What is the magnification?**

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

Understand It with Pulse | Flag a mistake

**16** **What do guard cells do?**

- **A** make chlorophyll
- **B** carry sugars down the stem
- **C** open and close the stomata
- **D** absorb water from soil

Understand It with Pulse | Flag a mistake

17 **A vaccine is given to 17 out of every 20 people in a school of 200 pupils. How many pupils receive the vaccine?**

- A 170
- B 30
- C 187
- D 17

Understand It with Pulse | Flag a mistake

18 **What does a plant make from glucose for energy storage in seeds?**

- A cellulose
- B starch
- C protein
- D lipids

Understand It with Pulse | Flag a mistake

19 **What does insulin do?**

A it lowers blood glucose

B it raises blood glucose

C it stores glucose in the blood

D it breaks down glycogen in the liver

Understand It with Pulse | Flag a mistake

20 **A pea plant with genotype Bb is crossed with a plant with genotype bb. What fraction of the offspring will be bb?**

A 1/2

B 3/4

C 1/4

D 1

Understand It with Pulse | Flag a mistake

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

A gravity only

B wind only

C energy from the soil

D energy from the Sun

Understand It with Pulse | Flag a mistake

22 **Which process moves oxygen into a cell from the air?**

A osmosis

B active transport

C respiration

D diffusion

Understand It with Pulse | Flag a mistake

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

A a ventricle

B a vein

C a capillary

D an artery

Understand It with Pulse | Flag a mistake

24 **In a town of 1000 people, 80 percent are vaccinated. How many people is that?**

A 800

B 1600

C 850

D 750

Understand It with Pulse | Flag a mistake

25 **A pondweed plant releases 18 bubbles of oxygen in 3 minutes. How many bubbles does it release per minute?**

A 12

B 6

C 5

D 7

Understand It with Pulse | Flag a mistake

26 **What does progesterone do?**

A it thickens the lining before ovulation

B it maintains the uterus lining

C it stimulates eggs to mature

D it triggers ovulation

Understand It with Pulse | Flag a mistake

27 **What is a clone?**

A an organism genetically identical to another

B an organism that looks similar to another organism

C a new species

D a twin

Understand It with Pulse | Flag a mistake

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

A 5000 kJ

B 20000 kJ

C 10000 kJ

D 100000 kJ

Understand It with Pulse | Flag a mistake

29 **Which part of a light microscope holds the slide?**

A the eyepiece

B the stage

C the objective lens

D the mirror

Understand It with Pulse | Flag a mistake

30 **Hardcover books are stacked on a table. What force pulls them down?**

A tension

B air resistance

C gravity

D friction

Understand It with Pulse | Flag a mistake

31 **A thermometer shows a patient's temperature is 39 degrees Celsius. Is this above or below normal body temperature?**

- A above normal
- B below normal
- C impossible to tell
- D exactly normal

Understand It with Pulse | Flag a mistake

32 **A school lunch tray holds a meal with milk. Which nutrient is milk rich in?**

- A fibre
- B vitamin C
- C calcium
- D iron

Understand It with Pulse | Flag a mistake

33 **A school lunch tray holds a meal. Why do we need food?**

A for fun only, not for health

B to feel full after eating

C for energy and growth

D to stay awake at night

Understand It with Pulse | Flag a mistake

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

A a fatty substance

B a protein-rich food

C a sugary liquid

D a mineral solution

Understand It with Pulse | Flag a mistake

35 **A river is polluted by fertiliser. What grows too fast in the water?**

A trees

B reeds

C fish

D algae

Understand It with Pulse | Flag a mistake

36 **A microscope has an eyepiece lens of 10 times and an objective lens of 40 times. What is the total magnification?**

A × 400

B × 4000

C × 50

D × 40

Understand It with Pulse | Flag a mistake

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

A platelets

B white blood cells

C red blood cells

D plasma

Understand It with Pulse | Flag a mistake

38 **A brown dog is bitten by a tick. Ticks can spread disease. How is the disease spread?**

A by a vector

B through the air

C through water

D by touch

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

41 **A forest absorbs carbon dioxide. Which process does this?**

A respiration in the trees

B combustion of the wood

C photosynthesis

D decomposition in the soil

Understand It with Pulse | Flag a mistake

42 **A honeybee visits a flower to collect nectar. What does it carry between flowers?**

A water

B seeds

C leaves

D pollen

Understand It with Pulse | Flag a mistake

**43** **A cell of real length 0.01 mm is viewed at a magnification of 400 times. How long is the image of the cell?**

- **A** 9 mm
- **B** 4 mm
- **C** 8 mm
- **D** 2 mm

Understand It with Pulse | Flag a mistake

**44** **Which test shows that a food contains starch?**

- **A** iodine turns blue-black
- **B** Benedict's turns brick red
- **C** Biuret turns purple
- **D** Sudan III turns red

Understand It with Pulse | Flag a mistake

**45** **What is an antibiotic?**

- A a vaccine
- B a drug that kills viruses only
- C a drug that kills bacteria
- D a painkiller

Understand It with Pulse | Flag a mistake

**46** **Photosynthesis produces oxygen at a rate of 5 cm cubed per minute. How much oxygen is produced in 10 minutes?**

- A 100 $cm^3$
- B 40 $cm^3$
- C 60 $cm^3$
- D 50 $cm^3$

Understand It with Pulse | Flag a mistake

47

## How do hormones travel around the body?

A in the blood

B in the lymph only

C along nerves

D through the skin

Understand It with Pulse | Flag a mistake

48

## What causes Huntington disease?

A a viral infection of the brain

B a dominant allele acting late

C a recessive allele that acts at birth

D a missing chromosome

Understand It with Pulse | Flag a mistake

49 **What is biomass?**

A the mass of dead material

B the mass of living material

C the number of organisms

D the energy in a food chain

Understand It with Pulse | Flag a mistake

50 **A cell is 20 mm long in a photograph. Its real length is 0.05 mm. What is the magnification?**

A × 800

B × 400

C × 200

D × 500

Understand It with Pulse | Flag a mistake

# ANSWER KEY

1. B
2. B
3. A
4. D
5. D
6. C
7. C
8. B
9. D
10. C
11. B
12. D
13. C
14. A
15. B
16. C
17. A
18. D
19. A
20. A
21. D
22. D
23. D
24. A
25. B
26. B
27. A
28. C
29. B
30. C
31. A
32. C
33. C
34. C
35. D
36. A
37. C
38. A
39. A
40. D
41. C
42. D
43. B
44. A
45. C
46. D
47. A
48. B
49. B
50. B

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