ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · 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 **A piece of potato weighs 10 g. After soaking in pure water it weighs 10.6 g. What is the percentage increase in mass?**

- A 12%
- B 11%
- C 3%
- D 6%

Understand It with Pulse | Flag a mistake

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

- A white blood cells
- B platelets
- C red blood cells
- D plasma

Understand It with Pulse | Flag a mistake

3 **What do antibiotics kill?**

A protists

B bacteria

C fungi

D viruses

Understand It with Pulse | Flag a mistake

4 **One glucose molecule releases 30 molecules of ATP in respiration. How many ATP molecules are released from 3 glucose molecules?**

A 60

B 180

C 120

D 90

Understand It with Pulse | Flag a mistake

5 **Which plant hormone ripens fruit?**

A ethene

B gibberellin

C auxin

D adrenaline

Understand It with Pulse | Flag a mistake

6 **Why do identical twins look the same?**

A they eat the same food

B they live in the same house

C they were born together

D they have the same genes

Understand It with Pulse | Flag a mistake

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

A energy from the Sun

B gravity only

C energy from the soil

D wind only

Understand It with Pulse | Flag a mistake

8 **What is the electronic structure of oxygen (atomic number 8)?**

A 2,7

B 2,4

C 2,8

D 2,6

Understand It with Pulse | Flag a mistake

9 **What type of bonding is in water?**

A metallic

B intermolecular forces

C covalent

D ionic

Understand It with Pulse | Flag a mistake

10 **What is the relative formula mass of magnesium oxide, MgO?**

A 36

B 48

C 40

D 80

Understand It with Pulse | Flag a mistake

11 **What is the positive electrode called?**

A the cathode

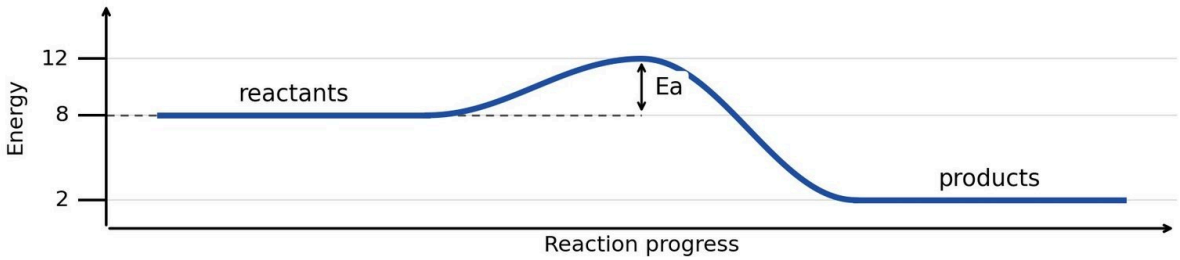
B the cell

C the anode

D the electrolyte

Understand It with Pulse | Flag a mistake

12 **The diagram shows the energy profile for a reaction. The reactants are at energy 8 and the products are at 2. Is the reaction exothermic or endothermic?**



A exothermic, energy is given out

B endothermic, energy is given out

C endothermic, energy is taken in

D exothermic, energy is taken in

Understand It with Pulse | Flag a mistake

13 **In an experiment, 60 cubic centimetres of gas are made in 20 seconds. What is the rate of the reaction?**

- A 1200 cm^3/s
- B 3 cm^3/s
- C 1.5 cm^3/s
- D 6 cm^3/s

Understand It with Pulse | Flag a mistake

14 **An alkane has 3 carbon atoms. How many hydrogen atoms does one molecule have?**

- A 4
- B 10
- C 6
- D 8

Understand It with Pulse | Flag a mistake

15 **What is the test for oxygen?**

- A a lighted splint pops
- B bromine water turns colourless
- C a glowing splint relights
- D limewater turns cloudy

Understand It with Pulse | Flag a mistake

16 **A factory emits 50 tonnes of carbon dioxide per day. How much does it emit in one week?**

- A 350 tonnes
- B 340 tonnes
- C 360 tonnes
- D 700 tonnes

Understand It with Pulse | Flag a mistake

17 **A town sends 200 tonnes of waste to landfill per week. How much waste is that in one year?**

- A 10400 tonnes
- B 10300 tonnes
- C 20800 tonnes
- D 10500 tonnes

Understand It with Pulse | Flag a mistake

18 **What is the unit of energy?**

- A the joule
- B the newton
- C the watt
- D the volt

Understand It with Pulse | Flag a mistake

19 **A resistor has a potential difference of 6 V across it and a resistance of 4 ohms. What is the current?**

- A 24 A
- B 0.75 A
- C 1.5 A
- D 3 A

Understand It with Pulse | Flag a mistake

20 **An object has a mass of 200 g and a volume of 10 cubic centimetres. What is its density?**

- A 10 g/cm³
- B 210 g/cm³
- C 20 g/cm³
- D 40 g/cm³

Understand It with Pulse | Flag a mistake

21 **An atom has a mass number of 23 and an atomic number of 11. How many neutrons does it have?**

A 13

B 14

C 12

D 11

Understand It with Pulse | Flag a mistake

22 **A kite flies in the wind. Which force holds the kite up?**

A thrust

B drag

C weight

D lift

Understand It with Pulse | Flag a mistake

23 **A wave travels at 20 m/s with a wavelength of 4 m. What is its frequency?**

- **A** 10 Hz
- **B** 2.5 Hz
- **C** 80 Hz
- **D** 5 Hz

Understand It with Pulse | Flag a mistake

24 **The force on a wire in a magnetic field is 2 N. If the current doubles, what is the new force?**

- **A** 2 N
- **B** 4 N
- **C** 1 N
- **D** 6 N

Understand It with Pulse | Flag a mistake

25

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

A leaves

B pollen

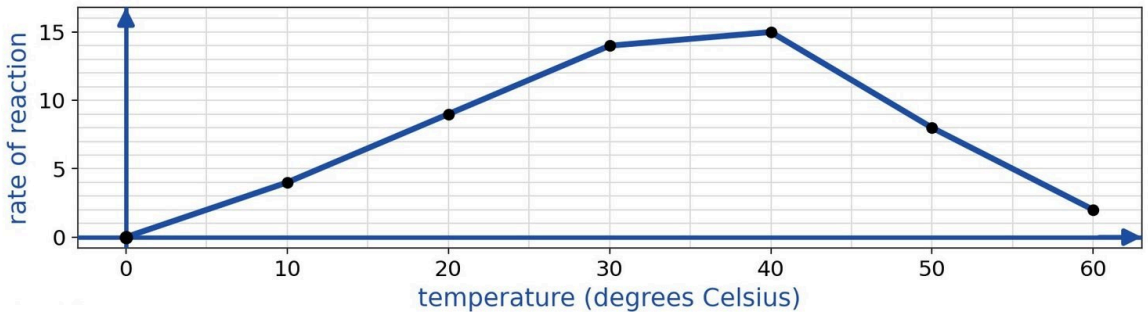
C seeds

D water

Understand It with Pulse

Flag a mistake

26 **The graph shows the rate of an enzyme reaction at different temperatures. At which temperature is the rate highest?**



A 30

B 40

C 20

D 60

Understand It with Pulse | Flag a mistake

27 **A thermometer shows a child has a temperature of 39 degrees Celsius. What does a high temperature suggest?**

A the child is dehydrated

B the body is fighting an infection

C the body is too cold

D the child needs more sleep and rest tonight

Understand It with Pulse | Flag a mistake

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

A they freeze in the cold

B they ferment into alcohol

C they dry out in the air

D enzymes react with oxygen

Understand It with Pulse | Flag a mistake

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

A carbohydrates

B protein, for growth

C fat, for insulation

D fibre, for digestion

Understand It with Pulse | Flag a mistake

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

A seeds

B leaves

C pollen

D water

Understand It with Pulse | Flag a mistake

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

A 6

B 4

C 8

D 10

Understand It with Pulse | Flag a mistake

32 **An ice cream cone melts in the Sun. What is happening to the particles in the ice cream?**

A they lose energy and slow down a lot

B they get smaller

C they stop moving

D they gain energy and move more

Understand It with Pulse | Flag a mistake

33 **A chocolate cake is baked. Is baking a chemical change?**

- A never
- B no
- C yes
- D sometimes

Understand It with Pulse | Flag a mistake

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

- A air resistance
- B gravity
- C tension
- D friction

Understand It with Pulse | Flag a mistake

35 **An ice cream cone is put in a freezer. What happens to the liquid?**

A it freezes

B it evaporates

C it boils

D it condenses

Understand It with Pulse | Flag a mistake

36 **An ice cream cone melts. What is the melting point of the ice cream?**

A around 37 degrees Celsius

B around 0 degrees Celsius

C around minus 20 degrees Celsius

D around 100 degrees Celsius

Understand It with Pulse | Flag a mistake

37 **A cup of coffee is left for an hour. What happens to its temperature?**

- A it falls to zero degrees
- B it stays the same all day
- C it rises above room temperature
- D it falls to room temperature

Understand It with Pulse | Flag a mistake

38 **A cup of coffee is hot. How is energy transferred to the air?**

- A by radiation only, from the surface
- B by conduction and convection
- C by condensation on the cold cup
- D by evaporation only, from the top

Understand It with Pulse | Flag a mistake

39

Lemons taste sour. What does sour taste show?

A a metal is present

B a salt is present

C an acid is present

D an alkali is present

Understand It with Pulse | Flag a mistake

40

A river flows to the sea. What is this part of?

A the nitrogen cycle

B the carbon cycle

C the water cycle

D the rock cycle

Understand It with Pulse | Flag a mistake

41 **A cheese pizza provides energy. Which nutrient provides most energy?**

A fat

B protein

C fibre

D vitamins

Understand It with Pulse | Flag a mistake

42 **A red race car brakes hard. What happens to its kinetic energy?**

A it increases

B it becomes sound only, nothing else

C it is transferred to heat

D it disappears

Understand It with Pulse | Flag a mistake

43 **A guitar string vibrates to make a sound. What type of wave is the sound wave?**

- A standing
- B longitudinal
- C transverse
- D electromagnetic

Understand It with Pulse | Flag a mistake

44 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

- A 0
- B 100
- C 32
- D 10

Understand It with Pulse | Flag a mistake

45 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

A it evaporates

B it freezes

C it expands

D it contracts

Understand It with Pulse | Flag a mistake

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

A red blood cells

B platelets

C white blood cells

D plasma

Understand It with Pulse | Flag a mistake

47 **A passenger aeroplane takes off. Which force lifts it up?**

- A weight
- B thrust
- C drag
- D lift

Understand It with Pulse | Flag a mistake

48 **A yellow school bus carries children to school. Which blood vessel carries blood away from the heart, like a bus leaving the station?**

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

Understand It with Pulse | Flag a mistake

49 **A piece of potato weighs 8 g. After soaking in pure water it weighs 8.8 g. What is the percentage increase in mass?**

- A 15%
- B 20%
- C 5%
- D 10%

Understand It with Pulse | Flag a mistake

50 **An enzyme reaction is fastest at 20 degrees Celsius. At 40 degrees Celsius the rate is much lower. Why?**

- A the substrate runs out
- B the enzyme is denatured
- C the enzyme works faster
- D the enzyme is digested

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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