ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · UNIT 11 · 25 QUESTIONS

Static Electricity — 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 guitar is plugged into an amplifier. What flows through the cable?**

- A electric current
- B sound waves travelling along it
- C water
- D light

Understand It with Pulse | Flag a mistake

2 **Hardcover books have mass. What is mass measured in?**

- A newtons, the unit of force
- B joules
- C watts
- D kilograms

Understand It with Pulse | Flag a mistake

3 **A tennis ball is served fast. What is its speed like?**

- A low
- B zero
- C negative
- D high

Understand It with Pulse | Flag a mistake

4 **A calculator runs on a small current. What is current measured in?**

- A watts, the unit of power
- B ohms, the unit of resistance
- C volts, the unit of voltage
- D amperes

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

7 **What happens when two objects with the same charge are brought together?**

- A they attract each other
- B nothing happens at all
- C they repel each other
- D they stick together

Understand It with Pulse | Flag a mistake

8 **A current of 10 A flows for 20 s. How much charge flows, in C?**

- A 100
- B 210
- C 400
- D 200

Understand It with Pulse | Flag a mistake

9 **What is lightning?**

A a magnetic storm

B a reflection of sunlight

C a large static discharge

D a rain cloud exploding

Understand It with Pulse | Flag a mistake

10 **A plastic rod is rubbed with a cloth. What moves between the rod and the cloth?**

A atoms, which leave the rod

B electrons

C neutrons, which carry no charge

D protons, which are free to move

Understand It with Pulse | Flag a mistake

11 **A wristwatch measures time. What is the unit of time?**

A the minute

B the hour

C the day

D the second

Understand It with Pulse | Flag a mistake

12 **Which of these shows the field around a negative charge?**

A lines pointing inwards

B lines pointing outwards

C no lines at all

D lines in circles

Understand It with Pulse | Flag a mistake

13 **What is an electric field?**

A the region where sound travels

B the region inside a magnet

C the region where light is blocked

D where a charge feels a force

Understand It with Pulse | Flag a mistake

14 **Which material is best for holding a static charge?**

A an insulator

B a conductor, which holds charge well

C a semiconductor

D a magnet

Understand It with Pulse | Flag a mistake

15 **What material is used for earthing wires?**

A an insulator

B a semiconductor

C a conductor

D a magnet

Understand It with Pulse | Flag a mistake

16 **Why is paint sprayed electrostatically in car factories?**

A the paint dries faster

B the car attracts it

C the paint is cheaper

D the spray gun is magnetic

Understand It with Pulse | Flag a mistake

17 **A basketball is dropped. What energy store increases as it falls?**

- A kinetic
- B thermal
- C elastic
- D gravitational potential

Understand It with Pulse | Flag a mistake

18 **Which of these can become charged by friction?**

- A a battery
- B a magnet
- C a metal wire, which is a conductor
- D an insulator

Understand It with Pulse | Flag a mistake

19 **A current of 10 A flows for 30 s. How much charge flows, in C?**

- A 310
- B 600
- C 300
- D 150

Understand It with Pulse | Flag a mistake

20 **What can happen if charge builds up on a person in a fuel depot?**

- A they become magnetic
- B their clothes catch fire at once
- C they lose their balance
- D a spark when they touch metal

Understand It with Pulse | Flag a mistake

21 **Which of these can become charged by rubbing?**

A a steel nail, which is a metal

B a copper wire, which conducts charge away

C a plastic rod

D a glass of water

Understand It with Pulse | Flag a mistake

22 **What is the electric field between two parallel plates?**

A zero in the middle

B uniform

C strongest at the edges

D stronger near the positive plate

Understand It with Pulse | Flag a mistake

23 **What charges the ink in an inkjet printer?**

- A pressure from a pump
- B heat from the printer
- C a magnet in the cartridge
- D static electricity

Understand It with Pulse | Flag a mistake

24 **Why can static electricity be dangerous when filling a fuel tanker?**

- A the fuel becomes magnetic
- B the tanker becomes too heavy
- C the fuel freezes
- D a spark could ignite it

Understand It with Pulse | Flag a mistake

25 **A current of 4 A flows for 20 s. How much charge flows, in C?**

- A 80
- B 160
- C 90
- D 40

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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