ENGLAND GCSE PHYSICS AQA HIGHER · UNIT 8 · 25 QUESTIONS

Space Physics — 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 Ferris wheel turns slowly. A person on the wheel moves in a circle. What is the person's speed like?**

- A steady speed
- B zero speed
- C increasing speed
- D decreasing speed

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

3 **A wristwatch is used to time a race. What is speed calculated from?**

- A distance only, not time
- B time only, not distance
- C distance and time
- D mass and time together

Understand It with Pulse | Flag a mistake

4 **A rocket launches straight up. Which force acts downwards on the rocket?**

- A air resistance
- B lift
- C thrust
- D gravity

Understand It with Pulse | Flag a mistake

5 **A basketball is thrown up. What happens to its speed as it rises?**

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

Understand It with Pulse | Flag a mistake

6 **A bicycle has brakes. What do the brakes do to kinetic energy?**

- A turn it into light and sound
- B store it
- C destroy it
- D transfer it to heat

Understand It with Pulse | Flag a mistake

7 **A kite is held by a string. What force does the string exert?**

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

Understand It with Pulse | Flag a mistake

8 **Which stars end in a supernova?**

- A planets
- B very massive stars
- C small stars like the Sun
- D white dwarfs

Understand It with Pulse | Flag a mistake

9 **What shape is the orbit of a planet?**

A a square

B almost a circle

C a triangle

D a straight line

Understand It with Pulse | Flag a mistake

10 **What is dark matter?**

A unseen matter with gravity

B matter that gives out light

C matter that does not exist

D matter inside black holes only

Understand It with Pulse | Flag a mistake

11 **A passenger train travels at a steady speed. What is its acceleration?**

- **A** 0 m/s²
- **B** 10 m/s²
- **C** 1 m/s²
- **D** 9.8 m/s²

Understand It with Pulse | Flag a mistake

12 **What is the Sun?**

- **A** a moon
- **B** a planet
- **C** a comet
- **D** a star

Understand It with Pulse | Flag a mistake

13 **What is dark energy thought to do?**

A hold galaxies together

B make stars shine

C it speeds expansion up

D slow the expansion down

Understand It with Pulse | Flag a mistake

14 **Which planet is closest to the Sun?**

A Venus, the second planet

B Earth, the third planet

C Mars, the fourth planet

D Mercury

Understand It with Pulse | Flag a mistake

15 **A satellite orbits at a radius of 400 km and takes 10 seconds for one orbit. Use pi = 3.14. What is its orbital speed?**

- A 256.2 km/s
- B 125.6 km/s
- C 502.4 km/s
- D 251.2 km/s

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

A lift

B thrust

C drag

D weight

Understand It with Pulse | Flag a mistake

18 **What is a nebula?**

A a planet forming around a star

B a cloud of dust and gas

C a black hole

D a dying star

Understand It with Pulse | Flag a mistake

19 **Which galaxies show the biggest red-shift?**

A the nearest ones

B the furthest ones

C the brightest ones

D the smallest ones

Understand It with Pulse | Flag a mistake

20 **What does fusion in a star make from hydrogen?**

A oxygen

B carbon dioxide

C iron

D helium

Understand It with Pulse | Flag a mistake

21 **What are polar orbit satellites used for?**

- A staying over one place, like a TV satellite
- B it watches the whole Earth
- C talking to the Moon
- D blocking sunlight

Understand It with Pulse | Flag a mistake

22 **What is a white dwarf?**

- A a cold planet
- B a small hot dead star
- C a cloud of gas
- D a bright young star, still burning

Understand It with Pulse | Flag a mistake

23 **A tennis ball bounces. What happens to its kinetic energy?**

- A some becomes heat
- B it disappears completely
- C it all stays kinetic energy
- D it becomes light energy

Understand It with Pulse | Flag a mistake

24 **A red race car speeds up on a straight track. What is the resultant force doing?**

- A causing deceleration
- B causing a turn
- C doing nothing
- D causing acceleration

Understand It with Pulse | Flag a mistake

25

What is the Big Bang theory?

A it began hot, dense, expanding

B the Earth exploded

C the Universe is shrinking

D the Universe has always been the same

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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