ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · UNIT 7 · 25 QUESTIONS

Astronomy — 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 kite rises higher. What happens to the wind speed usually?**

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

Understand It with Pulse | Flag a mistake

2 **A calculator is switched on. What does the battery transfer energy to?**

- A the screen only
- B the buttons only
- C the case
- D the circuits

Understand It with Pulse | Flag a mistake

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

A doing nothing

B causing deceleration

C causing a turn

D causing acceleration

Understand It with Pulse | Flag a mistake

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

A gravity

B tension

C friction

D air resistance

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

6 **A passenger train brakes. What force slows it down?**

- A friction
- B thrust
- C lift
- D gravity, pulling it down

Understand It with Pulse | Flag a mistake

7 **A passenger aeroplane flies at a steady speed and height. What is the resultant force on the aeroplane?**

- A 10000 N
- B 0 N
- C 5000 N
- D 1000 N

Understand It with Pulse | Flag a mistake

8 **What does cosmic microwave background radiation show?**

- A stars are cooling down
- B the Earth is the centre
- C the early Universe was hot
- D the Universe is not expanding

Understand It with Pulse | Flag a mistake

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

A destroy it

B transfer it to heat

C turn it into light and sound

D store it

Understand It with Pulse | Flag a mistake

10 **Which planet is the largest in the Solar System?**

A Jupiter

B Earth

C Neptune, the far planet

D Saturn, the ringed planet

Understand It with Pulse | Flag a mistake

11 **What is a black hole?**

A light cannot escape it

B a dark cloud of gas

C a hole in the Earth

D a star that has gone out

Understand It with Pulse | Flag a mistake

12 **What is a light-year?**

A the distance to the Moon

B the time light takes to cross the Sun

C the age of the Sun

D the distance light travels in one year

Understand It with Pulse | Flag a mistake

13 **A satellite orbits at a radius of 200 km and takes 10 seconds for one orbit. Use pi = 3.14. What is its orbital speed?**

- A 251.2 km/s
- B 62.8 km/s
- C 125.6 km/s
- D 130.6 km/s

Understand It with Pulse | Flag a mistake

14 **A Ferris wheel turns. What force keeps a person moving in a circle?**

- A air resistance pushing them back
- B gravity only, pulling them down
- C friction only, gripping the seat
- D centripetal force

Understand It with Pulse | Flag a mistake

15 **What does fusion release in a star?**

- A energy
- B darkness
- C cold
- D water

Understand It with Pulse | Flag a mistake

16 **What is a nebula?**

- A a dying star
- B a planet forming around a star
- C a cloud of dust and gas
- D a black hole

Understand It with Pulse | Flag a mistake

17 **Why does the Moon not fall into the Earth?**

A gravity does not act on it, in space

B it is too far away

C it is held up by the air

D it keeps missing the Earth

Understand It with Pulse | Flag a mistake

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

A slow the expansion down

B it speeds expansion up

C hold galaxies together

D make stars shine

Understand It with Pulse | Flag a mistake

19 **A basketball bounces. What type of energy is stored when the ball squashes?**

A elastic potential

B thermal

C kinetic

D gravitational potential

Understand It with Pulse | Flag a mistake

20 **Why does a star stay the same size on the main sequence?**

A it cools down

B forces balance

C gravity disappears

D it stops making energy

Understand It with Pulse | Flag a mistake

21 **How long does a geostationary satellite take to orbit the Earth?**

A 24 hours

B 1 hour

C 1 year

D 1 month, about 30 days

Understand It with Pulse | Flag a mistake

22 **What is cosmic microwave background radiation?**

A radiation made by stars today

B radiation from mobile phones

C leftover early radiation

D radiation from the Sun

Understand It with Pulse | Flag a mistake

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

A the second

B the minute

C the day

D the hour

Understand It with Pulse | Flag a mistake

24 **A tennis ball is hit across a court. Which force slows the ball down in the air?**

A air resistance

B the hit

C friction with the ground

D gravity

Understand It with Pulse | Flag a mistake

25

Why do scientists think there is dark energy?

A expansion is speeding up

B galaxies are standing still

C the Universe is shrinking

D stars are getting brighter

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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