ENGLAND GCSE PHYSICS EDEXCEL HIGHER · 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 passenger aeroplane cruises. Which force opposes its motion?**

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

Understand It with Pulse | Flag a mistake

2 **A rocket is pushed up by hot gases. What is the upward force called?**

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

4 **A Ferris wheel is at the top. What is the person's height like?**

- A at zero
- B unchanged
- C at its greatest
- D at its smallest

Understand It with Pulse | Flag a mistake

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

A negative

B zero

C low

D high

Understand It with Pulse | Flag a mistake

6 **A calculator uses a battery. What energy is stored in the battery?**

A thermal energy from heat

B light energy from the Sun

C chemical energy

D kinetic energy of motion

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

9 **What is the Sun?**

A a planet

B a moon

C a star

D a comet

Understand It with Pulse | Flag a mistake

10 **A bicycle freewheels downhill. What happens to its speed?**

A it stays the same

B it becomes zero

C it decreases

D it increases

Understand It with Pulse | Flag a mistake

11 **Why is the light from a moving-away galaxy red-shifted?**

A the galaxy turns red

B the waves are stretched

C the light slows down

D the waves are squashed up

Understand It with Pulse | Flag a mistake

12 **How long does light from the Sun take to reach the Earth?**

A about 8 minutes

B about 8 seconds

C about 8 days

D about 8 hours

Understand It with Pulse | Flag a mistake

13 **A red race car has a large rear wing. What does the wing do?**

- A reduces drag to zero
- B increases grip
- C reduces grip
- D increases speed

Understand It with Pulse | Flag a mistake

14 **Hardcover books are dropped. What happens to their speed as they fall?**

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

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

Understand It with Pulse | Flag a mistake

16 **What is most of the matter in the Universe?**

- A dark matter
- B planets
- C gas we can see
- D stars

Understand It with Pulse | Flag a mistake

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

A stars are cooling down

B the Universe is not expanding

C the Earth is the centre

D the early Universe was hot

Understand It with Pulse | Flag a mistake

18 **What is a black hole?**

A a star that has gone out

B a hole in the Earth

C light cannot escape it

D a dark cloud of gas

Understand It with Pulse | Flag a mistake

19 **What happens to the orbital speed of a planet further from the Sun?**

- A it stops
- B it is slower
- C it stays the same
- D it is faster

Understand It with Pulse | Flag a mistake

20 **What is a geostationary satellite?**

- A one that orbits the Sun
- B one that stays still in space
- C it stays over one spot
- D one that falls to Earth

Understand It with Pulse | Flag a mistake

21 **What fuel does a main sequence star fuse?**

A helium, which is the product

B oxygen

C hydrogen

D carbon

Understand It with Pulse | Flag a mistake

22 **What is a white dwarf?**

A a bright young star, still burning

B a small hot dead star

C a cold planet

D a cloud of gas

Understand It with Pulse | Flag a mistake

23 **What is a protostar?**

A a cloud with no gravity

B a young forming star

C a planet around a star

D a dead star

Understand It with Pulse | Flag a mistake

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

A the hour

B the minute

C the day

D the second

Understand It with Pulse | Flag a mistake

25

What is red-shift?

A light from a star getting brighter

B light from the Sun getting hotter

C light shifted to the red end

D light bending around a planet

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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