ENGLAND GCSE PHYSICS OCR GATEWAY FOUNDATION · UNIT 8 · 25 QUESTIONS

Global Challenges — 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 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

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

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

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 causing a turn

B doing nothing

C causing deceleration

D causing acceleration

Understand It with Pulse | Flag a mistake

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

A platelets

B white blood cells

C plasma

D red blood cells

Understand It with Pulse | Flag a mistake

5 **Fishing boats catch fish. What trophic level are the fish?**

A consumers

B plants

C decomposers

D producers

Understand It with Pulse | Flag a mistake

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

A transfer it to heat

B destroy it

C store it

D turn it into light and sound

Understand It with Pulse | Flag a mistake

7 **What is a disadvantage of nuclear power?**

A it makes carbon dioxide

B it makes radioactive waste

C it stops working at night

D it needs a river

Understand It with Pulse | Flag a mistake

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

A oxygen

B hydrogen

C helium, which is the product

D carbon

Understand It with Pulse | Flag a mistake

9 **What is dark matter?**

A unseen matter with gravity

B matter that does not exist

C matter inside black holes only

D matter that gives out light

Understand It with Pulse | Flag a mistake

10 **Why do fossil fuels cause climate change?**

A they are expensive

B they run out slowly

C they are hard to find underground

D burning makes carbon dioxide

Understand It with Pulse | Flag a mistake

11 **A sailing ship uses the wind. What type of energy is wind?**

- A chemical energy
- B kinetic energy
- C potential energy
- D thermal energy

Understand It with Pulse | Flag a mistake

12 **Which of these reduces the force on a driver in a crash?**

- A a faster speed
- B a longer stopping time
- C a much heavier car body
- D a harder seat

Understand It with Pulse | Flag a mistake

13 **What is the thinking distance?**

A the distance between two cars

B the distance travelled while braking

C the total stopping distance

D the distance covered while reacting

Understand It with Pulse | Flag a mistake

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

A talking to the Moon

B blocking sunlight

C staying over one place, like a TV satellite

D it watches the whole Earth

Understand It with Pulse | Flag a mistake

15 **What does a red giant become when it runs out of fuel?**

- A a white dwarf
- B a black hole, like a massive star
- C a planet, cooling in space
- D a new star, born from the old one

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

17 **Why does the National Grid use step-up transformers?**

A to raise the current and cut the voltage

B to change direct current to sound

C to make more electricity

D to raise the voltage and cut the current

Understand It with Pulse | Flag a mistake

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

A very massive stars

B planets

C white dwarfs

D small stars like the Sun

Understand It with Pulse | Flag a mistake

19 **How does a star begin to form?**

- A a planet explodes
- B light pushes dust together, gently
- C a black hole forms first
- D gravity pulls gas together

Understand It with Pulse | Flag a mistake

20 **A galaxy shows red-shift. What does that tell us about the galaxy?**

- A it is moving away
- B it is standing still
- C it is getting hotter
- D it is moving towards us

Understand It with Pulse | Flag a mistake

21 **Which energy resource uses the tides?**

A solar power

B tidal power

C geothermal power

D biomass

Understand It with Pulse | Flag a mistake

22 **Which star is hotter, a red star or a blue star?**

A colour says nothing

B the blue star

C the red star

D they are the same

Understand It with Pulse | Flag a mistake

23 **What are comets made of?**

A ice and rock

B hot gas only

C pure iron

D liquid metal

Understand It with Pulse | Flag a mistake

24 **What is the Sun?**

A a comet

B a star

C a moon

D a planet

Understand It with Pulse | Flag a mistake

25

Why is solar power not used at night?

A the Sun is too far away

B there is no sunlight

C the panels are switched off

D the panels cool down

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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