PRINCE EDWARD ISLAND PHYSICS 11 · UNIT A · 25 QUESTIONS

Kinematics — 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 car covers 100 metres in 10 seconds and then 200 metres in 10 seconds. What is the average speed for the whole journey in metres per second



ANSWER

Understand It with Pulse

Flag a mistake

2 **A cyclist rides at a constant speed of 10 metres per second for 6 seconds. How far does the cyclist travel in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A car speeds up from 0 metres per second to 20 metres per second in 4 seconds. What is its acceleration in metres per second squared**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A train travels 100 metres in 5 seconds at constant speed. What is its speed in metres per second**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A car travelling 60 kilometres in 1 hour has an average speed of**



A 30 kilometres per hour

B 120 kilometres per hour

C 60 kilometres per hour

D 60 metres per second

Understand It with Pulse | Flag a mistake

6

A negative acceleration means the object is

A at rest

B moving at constant speed

C not moving

D slowing down or speeding up in the negative direction

Understand It with Pulse | Flag a mistake

7

A scalar quantity has magnitude but no

A direction

B unit

C value

D measurement

Understand It with Pulse | Flag a mistake

8

A vector quantity has both magnitude and

A speed

B direction

C time

D mass

Understand It with Pulse | Flag a mistake

9

Acceleration is the rate of change of

A distance

B time

C velocity

D mass

Understand It with Pulse | Flag a mistake

10 **A red apple dropped near Earth accelerates at about**



A 9.8 metres per second squared downward

B 0 metres per second squared

C 10 metres per second only

D 1 metre per second squared

Understand It with Pulse | Flag a mistake

11 **An object moving at constant velocity has acceleration equal to**

- A its speed
- B its distance
- C gravity
- D zero

Understand It with Pulse | Flag a mistake

12 **Displacement differs from distance because displacement includes**

- A direction
- B speed
- C time
- D mass

Understand It with Pulse | Flag a mistake

13 **Displacement is an example of a**

A scalar quantity

B force

C speed

D vector quantity

Understand It with Pulse | Flag a mistake

14 **Distance is an example of a**

A vector quantity

B force

C scalar quantity

D acceleration

Understand It with Pulse | Flag a mistake

15 **If air resistance is ignored, a feather and a bowling ball dropped together accelerate**



A at different rates by mass

B at the same rate

C at zero

D by shape only

Understand It with Pulse | Flag a mistake

16 **Instantaneous velocity is the velocity at a**

A whole journey

B starting point only

C ending point only

D particular instant

Understand It with Pulse | Flag a mistake

17 **On a distance time graph, a horizontal line means the object is**

A at rest

B moving fast

C accelerating

D moving backward

Understand It with Pulse | Flag a mistake

18 **A cyclist rides 60 metres in 5 seconds and then 120 metres in 15 seconds. What is the average speed for the whole journey in metres per second**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A car drives at a constant speed of 15 metres per second for 4 seconds. How far does the car travel in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A car speeds up from 10 metres per second to 30 metres per second in 5 seconds. What is its acceleration in metres per second squared**



ANSWER

Understand It with Pulse | Flag a mistake

21 **A race car travels 150 metres in 3 seconds at constant speed. What is its speed in metres per second**

ANSWER

Understand It with Pulse | Flag a mistake

22 **A car covers 80 metres in 8 seconds and then 160 metres in 12 seconds. What is the average speed for the whole journey in metres per second**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A train travels at a constant speed of 20 metres per second for 3 seconds. How far does the train travel in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A car speeds up from 5 metres per second to 25 metres per second in 4 seconds. What is its acceleration in metres per second squared**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A race car travels 200 metres in 4 seconds at constant speed. What is its speed in metres per second**



ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 15
2. 60
3. 5
4. 20
5. C
6. D
7. A
8. B
9. C
10. A
11. D
12. A
13. D
14. C
15. B
16. D
17. A
18. 9
19. 60
20. 4
21. 50
22. 12
23. 60
24. 5
25. 50

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