Physics Unit 1 & 2 — Practice Exam 1 — Answers & Explanations

Answers to the 15 questions in the free preview.

Physics

1. B. 10 m/s
v = u + at = 0 + (2 × 5) = 10 m/s.

2. B. ½mv²
Kinetic energy is calculated as ½mv², where m is mass and v is velocity.

3. C. 2 A
I = V / R = 20 / 10 = 2 A.

4. A. Electron
Electrons carry negative charge and are the particles that flow through a conductor.

5. A. 5 m/s
Speed = distance ÷ time = 20 ÷ 4 = 5 m/s.

6. D. 6 m/s
Speed = distance ÷ time = 30 ÷ 5 = 6 m/s.

7. C. 5 m/s
Speed = distance ÷ time = 15 ÷ 3 = 5 m/s.

8. B. 15 N
F = m × a = 5 × 3 = 15 N.

9. A. 20 N
F = m × a = 10 × 2 = 20 N.

10. D. 24 N
F = m × a = 4 × 6 = 24 N.

11. C. Acceleration
Acceleration measures the rate of change of velocity over time.

12. B. 20 kg·m/s
Momentum = mass × velocity = 4 × 5 = 20 kg·m/s.

13. A. 800 J
Ep = mgh = 1 × 10 × 80 = 800 J.

14. D. 490 J
Ep = mgh = 1 × 9.8 × 50 = 490 J.

15. D. 3 A
I = V ÷ R = 12 ÷ 4 = 3 A.

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PREVIEW

That’s the end of the preview answers

These are the answers to the 15 preview questions. The full answer key covers all 30 questions in Physics Unit 1 & 2 — Practice Exam 1, with the working behind every mark.

STILL TO COME	QUESTIONS	MARKS
Physics	15	15

The full paper comes with

- Every question, printed exactly like the ones in this preview
- The complete answer key, with the working behind every mark
- A topic report after marking, showing what to practice next

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