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Physical Sciences

Grade 12

Paper 1 (Physics)

190

Multiple-Choice

Solutions

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QUESTION 1 (VERTICAL PROJECTILE MOTION)

- 1.1 C ✓✓
- 1.2 C ✓✓
- 1.3 A ✓✓
- 1.4 A ✓✓
- 1.5 D ✓✓
- 1.6 A ✓✓
- 1.7 D ✓✓
- 1.8 A ✓✓
- 1.9 A ✓✓
- 1.10 D ✓✓
- 1.11 D ✓✓
- 1.12 A ✓✓
- 1.13 D ✓✓
- 1.14 A ✓✓
- 1.15 A ✓✓
- 1.16 A ✓✓
- 1.17 B ✓✓
- 1.18 B ✓✓
- 1.19 D ✓✓
- 1.20 C ✓✓
- 1.21 C ✓✓
- 1.22 C ✓✓
- 1.23 B ✓✓
- 1.24 A ✓✓
- 1.25 D ✓✓

QUESTION 2 (MOMENTUM & IMPULSE)

- 2.1 B ✓✓
- 2.2 C ✓✓
- 2.3 C ✓✓
- 2.4 A ✓✓
- 2.5 D ✓✓

- 2.6 C ✓✓
- 2.7 A ✓✓
- 2.8 C ✓✓
- 2.9 C ✓✓
- 2.10 B ✓✓
- 2.11 C ✓✓
- 2.12 B ✓✓
- 2.13 C ✓✓
- 2.14 A ✓✓
- 2.15 C ✓✓
- 2.16 D ✓✓
- 2.17 D ✓✓
- 2.18 D ✓✓
- 2.19 B ✓✓
- 2.20 B ✓✓
- 2.21 A ✓✓
- 2.22 C ✓✓
- 2.23 D ✓✓
- 2.24 B ✓✓
- 2.25 B ✓✓

QUESTION 3 (NEWTON'S LAWS)

- 3.1 B ✓✓
- 3.2 D ✓✓
- 3.3 B ✓✓
- 3.4 D ✓✓
- 3.5 C ✓✓
- 3.6 A ✓✓
- 3.7 A ✓✓
- 3.8 C ✓✓
- 3.9 A ✓✓
- 3.10 C ✓✓
- 3.11 B ✓✓
- 3.12 C ✓✓
- 3.13 B ✓✓

- 3.14 A ✓✓
- 3.15 C ✓✓
- 3.16 C ✓✓
- 3.17 C ✓✓
- 3.18 B ✓✓
- 3.19 A ✓✓
- 3.20 C ✓✓
- 3.21 C ✓✓
- 3.22 A ✓✓
- 3.23 B ✓✓
- 3.24 A ✓✓
- 3.25 D ✓✓

QUESTION 4 (WORK, ENERGY & POWER)

- 4.1 A ✓✓
- 4.2 D ✓✓
- 4.3 D ✓✓
- 4.4 B ✓✓
- 4.5 A ✓✓
- 4.6 C ✓✓
- 4.7 C ✓✓
- 4.8 D ✓✓
- 4.9 B ✓✓
- 4.10 B ✓✓
- 4.11 A ✓✓
- 4.12 B ✓✓
- 4.13 B ✓✓
- 4.14 A ✓✓
- 4.15 D ✓✓
- 4.16 B ✓✓
- 4.17 B ✓✓
- 4.18 D ✓✓
- 4.19 C ✓✓
- 4.20 D ✓✓
- 4.21 C ✓✓

- 4.22 D ✓✓
- 4.23 A ✓✓
- 4.24 B ✓✓
- 4.25 B ✓✓

QUESTION 5 (DOPPLER EFFECT)

- 5.1 B ✓✓
- 5.2 A ✓✓
- 5.3 B ✓✓
- 5.4 B ✓✓
- 5.5 C ✓✓
- 5.6 A ✓✓
- 5.7 B ✓✓
- 5.8 B ✓✓
- 5.9 A ✓✓
- 5.10 A ✓✓
- 5.11 A ✓✓

QUESTION 6 (ELECTROSTATICS)

- 6.1 D ✓✓
- 6.2 D ✓✓
- 6.3 B ✓✓
- 6.4 C ✓✓
- 6.5 C ✓✓
- 6.6 A ✓✓
- 6.7 C ✓✓
- 6.8 D ✓✓
- 6.9 A ✓✓
- 6.10 C ✓✓
- 6.11 B ✓✓
- 6.12 A ✓✓
- 6.13 A ✓✓
- 6.14 C ✓✓

- 6.15 A ✓✓
- 6.16 B ✓✓
- 6.17 B ✓✓
- 6.18 C ✓✓
- 6.19 A ✓✓
- 6.20 A ✓✓
- 6.21 C ✓✓

QUESTION 7 (ELECTRIC CIRCUITS)

- 7.1 A ✓✓
- 7.2 D ✓✓
- 7.3 B ✓✓
- 7.4 D ✓✓
- 7.5 C ✓✓
- 7.6 D ✓✓
- 7.7 D ✓✓
- 7.8 B ✓✓
- 7.9 C ✓✓
- 7.10 B ✓✓
- 7.11 C ✓✓
- 7.12 B ✓✓
- 7.13 A ✓✓
- 7.14 C ✓✓
- 7.15 D ✓✓
- 7.16 B ✓✓
- 7.17 A ✓✓
- 7.18 C ✓✓
- 7.19 C ✓✓
- 7.20 A ✓✓
- 7.21 D ✓✓

QUESTION 8 (ELECTRODYNAMICS)

- 8.1 C ✓✓
- 8.2 B ✓✓

- 8.3 A ✓✓
- 8.4 C ✓✓
- 8.5 D ✓✓
- 8.6 B ✓✓
- 8.7 C ✓✓
- 8.8 B ✓✓
- 8.9 D ✓✓
- 8.10 C ✓✓
- 8.11 A ✓✓

QUESTION 9 (PHOTO ELECTRIC EFFECT)

- 9.1 C ✓✓
- 9.2 B ✓✓
- 9.3 B ✓✓
- 9.4 A ✓✓
- 9.5 D ✓✓
- 9.6 A ✓✓
- 9.7 A ✓✓
- 9.8 B ✓✓
- 9.9 D ✓✓
- 9.10 A ✓✓
- 9.11 D ✓✓
- 9.12 C ✓✓
- 9.13 A ✓✓
- 9.14 A ✓✓
- 9.15 A ✓✓
- 9.16 B ✓✓
- 9.17 B ✓✓
- 9.18 B ✓✓
- 9.19 B ✓✓
- 9.20 C ✓✓
- 9.21 D ✓✓
- 9.22 D ✓✓
- 9.23 C ✓✓
- 9.24 B ✓✓

9.25 B ✓✓

9.26 C ✓✓

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