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Physical Science Grade 12

2025 June Term 2 Exam

Papers and Memos

- | | | |
|-------|---|-------------|
| 2.1.1 | Define the term <i>kinetic friction</i> . | (2) |
| 2.1.2 | Explain why the coefficient of friction for the two blocks, A and B are different. | (1) |
| 2.1.3 | Draw a labelled free-body diagram showing all the forces acting on block A . | (5) |
| 2.1.4 | Calculate the mass of block B . | (7) |
| 2.2 | A rock of mass 100 kg lies on the surface of a planet Y . The acceleration due to gravity on the surface of the planet is $12 \text{ m}\cdot\text{s}^{-2}$. | |
| 2.2.1 | State the <i>Newton's Law of Universal Gravitation</i> in words | (2) |
| 2.2.2 | Calculate the mass of the planet Y if its radius is 700 km. | (4) |
| | | [21] |

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