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Department:
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PROVINCIAL ASSESSMENT PROVINSIALE ASSESSERING

GRADE/GRAAD 12

TECHNICAL SCIENCES P1/TEGNIесе WETENSKAPPE V1

JUNE/JUNIE 2025

ADD MARKING GUIDELINES/NASIENRIGLYNE ADD

MARKS/PUNTE: 150

These errata marking guideline consists of 2 pages./

Hierdie nasienriglyne errata bestaan uit 2 bladsye.

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QUESTION/VRAAG 1

1.1 B/C ✓✓ (2)

QUESTION/VRAAG 2

2.1.1 Normal force/ *Normaalkrag* ✓ (accept/aanvaar: F_N/N)
 Force of gravity/Gravitational force/ *Swaartekrag/Gravitasiekrag* ✓
 (accept/aanvaar: F_g/w) (2)

2.3 When a net(resultant) force is applied to an object of mass, m , it accelerates the object in the direction of the net force. ✓✓ The acceleration is directly proportional to the net (resultant) force and inversely proportional to the mass of the object.

Wanneer 'n netto (resulterende) krag op 'n voorwerp met 'n massa, m , inwerk, versnel die voorwerp in die rigting van die netto krag. ✓✓ Die versnelling is direk eweredig aan netto (resulterende) krag en omgekeerd eweredig aan die massa van die voorwerp. (2)

QUESTION/VRAAG 3

3.1.3 Is equal to the change in momentum. ✓✓ (2)
Is gelyk aan die verandering in momentum.

3.1.4 $\Delta p = F_{\text{net}} \Delta t$
 Impulse/*Impuls* = $F_{\text{net/nettp}} \Delta t$ } ✓ any one/ *enige een*
 $= 60 \times 10^3 \checkmark (0,01) \checkmark$
 $= 600 \text{ N.s} \checkmark$ to the right/ *na regs*✓ (5)

3.2.5 The total linear momentum of an isolated system remains constant (is conserved) (in magnitude and direction). ✓✓

Die totale lineêre momentum van 'n geïsoleerde sisteem bly constant (word behou) (in grootte en rigting). (2)

QUESTION/VRAAG 4

4.2 The product of the applied force on an object and the displacement in the direction of the force. ✓✓

Die produk van die toegepaste krag op 'n voorwerp en die verplasing in die rigting van die krag. (2)

QUESTION 7/ VRAAG 7

7.1.3 41° ✓✓ (2)

