## EXAMINATION DATA SHEET FOR THE PHYSICAL SCIENCES (PHYSICS)

#### TABLE 1 PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Acceleration due to gravity	9	9,8 m·s <sup>-2</sup>
Speed of light in a vacuum	c	3,0 × 10 <sup>8</sup> m·s <sup>-1</sup>
Universal gravitational constant	G	6,7 × 10 <sup>-11</sup> N·m <sup>2</sup> kg <sup>-2</sup>
Coulomb's constant	k	9,0 × 10 <sup>9</sup> N m <sup>2</sup> C <sup>-2</sup>
Magnitude of charge on electron	e	1,6 × 10 <sup>-19</sup> C
Mass of an electron	me	9.1 × 10 <sup>-31</sup> kg
Planck's constant	h	6,6 × 10 <sup>-34</sup> J s
1 electron volt	eV	1,6 × 10 <sup>-19</sup> J

#### TABLE 2 PHYSICS FORMULAE

#### MOTION

$v = u + at$ or $v_i = v_i + a\Delta t$	$s = \left(\frac{v+u}{2}\right)t$ or $\Delta x = \left(\frac{v_r + v_r}{2}\right)\Delta t$	
$v^2 = u^2 + 2as$ or $v_i^2 = v_i^2 + 2a\Delta x$	$s = \omega t + \frac{1}{2}at^2$ or $\Delta x = v_i \Delta t + \frac{1}{2}a(\Delta t)^2$	

#### FORCE AND MOMENTUM

F <sub>net</sub> = ma	$F_{cot} = \frac{\Delta p}{\Delta t}$ or $F_{cot}\Delta t = m\Delta v$	$\Delta p = mv - mu$ or $\Delta p = mv, - mv,$
$\rho = mv$	$w = F_g = mg$	$F_{f}^{max} = \mu F_{N}$

#### WORK, ENERGY AND POWER

$W = Fs$ or $W = F\Delta x$ or $W = F\Delta x \cos \theta$		- <u>W</u>	P = Fv
$E_p = mgh$	$E_{\star} = \frac{1}{2} m v^2$	$W_{ret} = \Delta E_K$	efficiency = power,

#### GRAVITATIONAL AND ELECTRIC FIELDS

$F = G \frac{m_i m_2}{r^2}$		$g = G \frac{M}{r^2}$
$F = k \frac{q_1 q_2}{r^2}$	$E = \frac{F}{g}$	$E = \frac{kQ}{r^2}$

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