# EXAMINATION DATA SHEET FOR THE PHYSICAL SCIENCES (CHEMISTRY)

#### TABLE 1 PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Magnitude of charge on electron	е	1,6 × 10 <sup>-19</sup> C
Mass of an electron	me	9.1 × 10 <sup>-31</sup> kg
Standard pressure	₽ <sup>6</sup>	1,01 × 10 <sup>5</sup> Pa
Motar gas volume at STP	V.,	22,4 dm <sup>3</sup> - mol-1
Standard temperature	T*	273 K (0 °C)
Avogadro's constant	Na	6,02 × 10 <sup>23</sup> mol <sup>-1</sup>
Faraday's constant	F	96 500 C- mot-1

#### TABLE 2 CHEMISTRY FORMULAE

$n = \frac{m}{M}$	$n = \frac{N}{N_A}$	$n = \frac{\nu}{\nu_{\infty}}$
$c = \frac{n}{V}$ OR $c = \frac{m}{MV}$		0 <sup>4</sup> ] [OH <sup>-</sup> ] = 1 ×10 <sup>-14</sup> 25 °C (298 K)
q = It		ode - E <sup>θ</sup> anode
	400	ent – E <sup>8</sup> reducing agent

# **Physical Science P2 2014 Prelims**

L Cohen

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