# 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	p⁰	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
Avogadro's constant	NA	6,02 × 10 <sup>29</sup> mol <sup>-1</sup>
Faraday's constant	F	96 500 C- mol-1

#### TABLE 2 CHEMISTRY FORMULAE

$$n = \frac{m}{M}$$

$$n = \frac{N}{N_A}$$

$$n = \frac{V}{V_m}$$

$$c = \frac{n}{V} \quad \text{OR} \quad c = \frac{m}{MV}$$

$$K_c = [H_3O^+] \quad [OH^-] = 1 \times 10^{-14}$$

$$\text{at 25 °C (298 K)}$$

$$q = nF$$

$$E_{cell}^\theta = E_{cathode}^\theta - E_{anode}^\theta$$

$$E_{cell}^\theta = E_{oxidising agent}^\theta - E_{reducing agent}^\theta$$

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**Didier Musso** 

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