

ĐÁP ÁN KIỂM TRA TẬP TRUNG GIỮA HỌC KỲ II
Môn: HÓA HỌC 12

PHẦN I. TRẮC NGHIỆM (24 câu - 6 điểm)

Đáp án mã đề: 501

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Đáp án mã đề: 502 (chung đáp án đề HSHN)

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Đáp án mã đề: 503

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PHẦN II. TỰ LUẬN (4 câu - 4 điểm)

Câu	Đề	Đáp án chi tiết	Điểm thành phần
1	Câu 1 (1 điểm): Cho kim loại kiềm (Na) vào dung dịch CuSO ₄ . Viết PTPƯ xảy ra.	$\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + 1/2\text{H}_2$	0,5 đ
		$\text{CuSO}_4 + 2\text{NaOH} \rightarrow \text{Cu(OH)}_2 + \text{Na}_2\text{SO}_4$	0,5 đ
2	Câu 2 (1 điểm): Viết PTPƯ chứng minh NaHCO ₃ có tính lưỡng tính.	$\text{NaHCO}_3 + \text{NaOH} \rightarrow \text{Na}_2\text{CO}_3 + \text{H}_2\text{O}$	0,5 đ
		$\text{NaHCO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{CO}_2 + \text{H}_2\text{O}$	0,5 đ
3	Câu 3 (1 điểm): Hòa tan 2,7 gam Al trong dung dịch HNO ₃ dư, thu được V lít khí NO (đktc) duy nhất. Tính V. Cho Al = 27; N = 14; O = 16; H = 1;	$n_{\text{Al}} = m/M = 2,7/27 = 0,1 \text{ mol}$	0,25 đ
		BT e $n_{\text{Al}} \cdot 3 = n_{\text{NO}} \cdot 3$ $0,1 \cdot 3 = n_{\text{NO}} \cdot 3 \rightarrow n_{\text{NO}} = 0,1 \text{ mol}$	0,5 đ
		$V_{\text{NO}} = 0,1 \cdot 22,4 = 2,24 \text{ lít}$	0,25 đ
4	Câu 4 (1 điểm): Dùng Al dư khử hoàn toàn 9,6 gam Fe ₂ O ₃ thành Fe bằng phản ứng nhiệt nhôm. Tính khối lượng Al cần dùng. Cho Fe=56.	$2\text{Al} + \text{Fe}_2\text{O}_3 \xrightarrow{t^\circ} \text{Al}_2\text{O}_3 + 2\text{Fe}$	0,25 đ
		0,12 0,06 mol	0,25 đ
		$n_{\text{Fe}_2\text{O}_3} = m/M = 9,6/160 = 0,06 \text{ mol}$	0,25 đ
		$m_{\text{Al}} = n \cdot M = 0,12 \cdot 27 = 3,24 \text{ g}$.	0,25 đ