



Univerzitet u Beogradu - Hemijski fakultet
Prijemni ispit iz hemije, 24. jun 2024. godine
Rešenja zadataka i ključ za bodovanje testa

Zadatak	Tačan odgovor	Broj poena
1.	Broj protona: 9, Broj neutrona: 10	2 + 2 = 4
2.	$\text{Ca}_3(\text{PO}_4)_2$, +5	2 + 2 = 4
3.	e)	1 x 4 = 4
4.	$\text{Mg}(\text{OH})_2 + 2 \text{HNO}_3 \rightarrow \text{Mg}(\text{NO}_3)_2 + 2 \text{H}_2\text{O}$	1 x 4 = 4
5.	Smanjiti 2 puta	1 x 4 = 4
6.	80 mg	1 x 4 = 4
7.	0,08 mol/dm ³	1 x 4 = 4
8.	d)	1 x 4 = 4
9.	$2 \text{KMnO}_4 + 5 \text{H}_2\text{S} + 3 \text{H}_2\text{SO}_4 \rightarrow 2 \text{MnSO}_4 + \text{K}_2\text{SO}_4 + 5 \text{S} + 8 \text{H}_2\text{O}$ 16 g	2 + 2 = 4
10.	a) $\text{CH}_2=\text{C}(\text{CH}_3)\text{CH}=\text{CH}_2$ b) $\text{HCOOCH}_2\text{CH}_3$ c) 4,4-dimetil-2-penten d) 3-metil-2-butanol	4 x 1 = 4
11.	a) $\text{CH}_3\text{CH}=\text{C}(\text{CH}_3)\text{CH}_2\text{CH}_3 + \text{HBr} \rightarrow \text{CH}_3\text{CH}_2\text{CBr}(\text{CH}_3)\text{CH}_2\text{CH}_3$ b) $\text{CH}_3\text{CH}_2\text{COCl} + \text{CH}_3\text{OH} \rightarrow \text{CH}_3\text{CH}_2\text{COOCH}_3 + \text{HCl}$	2 + 2 = 4
12.	b)	1 x 4 = 4
13.	a) NE; b) NE; c) NE; d) DA	4 x 1 = 4
14.	c)	1 x 4 = 4
15.	d)	1 x 4 = 4
Ukupno:		60 poena