



Univerzitet u Beogradu - Hemijski fakultet
Prijemni ispit iz hemije, 24. jul 2025. godine
Rešenja zadataka i ključ za bodovanje testa

Zadatak	Tačan odgovor	Broj poena
1.	Atomski broj: 19, Maseni broj: 39	$2 + 2 = 4$
2.	$\text{Mg}(\text{NO}_3)_2$, +5	$2 + 2 = 4$
3.	a)	$1 \times 4 = 4$
4.	$\text{Ca}(\text{OH})_2 + \text{H}_2\text{SO}_4 \rightarrow \text{CaSO}_4 + 2 \text{H}_2\text{O}$	$1 \times 4 = 4$
5.	b)	$1 \times 4 = 4$
6.	$[\text{OH}^-] = 10^{-12} \text{ mol/dm}^3$, pH = 2	$2 + 2 = 4$
7.	2,84 g	$1 \times 4 = 4$
8.	a)	$1 \times 4 = 4$
9.	$\text{I}_2 + 10 \text{HNO}_3 \rightarrow 2 \text{HIO}_3 + 10 \text{NO}_2 + 4 \text{H}_2\text{O}$ 896 cm^3	$2 + 2 = 4$
10.	a) $\text{CH}_3\text{CH}_2\text{NH}_2$ b) $\text{CH}_3\text{C}(\text{CH}_3)(\text{OH})\text{CH}_2\text{CH}_3$ c) 2-pentanon d) 2,2-dimetilbutan	$4 \times 1 = 4$
11.	a) $\text{CH}_2=\text{CHCH}(\text{CH}_3)\text{CH}_3 + \text{HBr} \rightarrow \text{CH}_3\text{CHBrCH}(\text{CH}_3)\text{CH}_3$ b) $\text{CH}_3\text{COOCOCH}_3 + \text{C}_6\text{H}_5\text{OH} \rightarrow \text{CH}_3\text{COOC}_6\text{H}_5 + \text{CH}_3\text{COOH}$	$2 + 2 = 4$
12.	d)	$1 \times 4 = 4$
13.	a) NE; b) NE; c) DA; d) NE	$4 \times 1 = 4$
14.	e)	$1 \times 4 = 4$
15.	d)	$1 \times 4 = 4$
Ukupno:		60 poena