MEDICAL UNIVERSITY - PLEVEN, BULGARIA

ANSWER SHEET Sample Test v.4

Subject: Chemistry

Date: ……

City: ……

Part A: Multiple Choice Questions

1	~~a~~	b	c	d
2	a	b	~~c~~	d
3	a	b	~~c~~	d
4	a	b	~~c~~	d
5	a	b	c	~~d~~
6	a	b	c	~~d~~
7	a	~~b~~	c	d
8	a	~~b~~	c	d
9	~~a~~	b	c	d
10	a	~~b~~	c	d
11	a	b	~~c~~	d
12	~~a~~	b	c	d
13	~~a~~	b	c	d
14	a	b	~~c~~	d
15	a	~~b~~	c	d
16	a	b	c	~~d~~
17	a	~~b~~	c	d
18	~~a~~	b	c	d
19	~~a~~	b	c	d
20	a	~~b~~	c	d

21	a	b	c	~~d~~
22	a	b	c	~~d~~
23	a	b	~~c~~	d
24	a	~~b~~	c	d
25	~~a~~	b	c	d
26	a	~~b~~	c	d
27	a	b	~~c~~	d
28	a	b	c	~~d~~
29	a	~~b~~	c	d
30	a	~~b~~	c	d
31	a	~~b~~	c	d
32	a	~~b~~	c	d
33	a	b	c	~~d~~
34	a	b	c	~~d~~
35	a	b	~~c~~	d
36	~~a~~	b	c	d
37	a	~~b~~	c	d
38	a	b	c	~~d~~
39	a	~~b~~	c	d
40	a	b	~~c~~	d

Part B: Short Answer Questions

1. Assign the proper oxidation state for the sulfur atom in each of the following species.

H_2S -2 SO_3 +6 H_2SO_3 +4

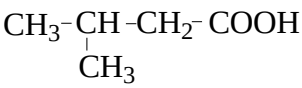
2. The concentration of OH^- ions in an aqueous solution at room temperature (25°C) is 1×10^{-6} mol.l^{-1}. What is the concentration of H^+ ions?

$[H^+] \times [OH^-] = 1\times10^{-14}\ (mol/l)^2$

$[OH^-] = 1\times10^{-6}\ mol/l$

$$[H^+] = \frac{1\times10^{-14}}{1\times10^{-6}} = 1\times10^{-8}\ mol/l$$

3. Give the IUPAC name of the following compound:



3-methylbutanoic acid

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4. Show the equation and name the product formed when acetaldehyde reacts with H_2.

$CH_3CHO + H_2 \rightarrow CH_3CH_2OH$ ethanol