

MEDICAL UNIVERSITY - PLEVEN, BULGARIA

ANSWER SHEET Sample Test 4

Subject: Chemistry

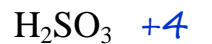
Part A: Multiple Choice Questions

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
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23	a	b	c	d
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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.



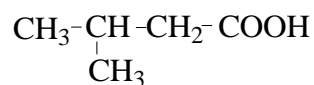
2. The concentration of OH^- ions in an aqueous solution at room temperature (25°C) is $1 \times 10^{-6} \text{ mol.l}^{-1}$. What is the concentration of H^+ ions?

$$[\text{H}^+] \times [\text{OH}^-] = 1 \times 10^{-14} (\text{mol/l})^2$$

$$[\text{OH}^-] = 1 \times 10^{-6} \text{ mol/l}$$

$$[\text{H}^+] = \frac{1 \times 10^{-14}}{1 \times 10^{-6}} = 1 \times 10^{-8} \text{ mol/l}$$

3. Give the IUPAC name of the following compound:



3-methylbutanoic acid

.....

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

