



ANSWER SHEET Sample Test v.3

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
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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
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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. The pH of aqueous solution is 3 at room temperature (25°C). What is the concentration of H⁺ ions?

$$pH = -\log [H^+] \quad [H^+] = \text{antilog} (-pH) = \text{antilog} (-3) = 1 \times 10^{-3} \text{ mol/l}$$

$$[H^+] = 1 \times 10^{-3} \text{ mol/l}$$

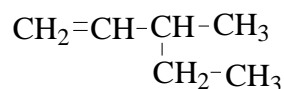
2. Express the rate law equation for the reaction $2 \text{H}_{2(g)} + \text{O}_{2(g)} \rightarrow 2\text{H}_2\text{O}_{(g)}$

$$v = k \cdot [H_2]^2 \cdot [O_2]$$

v – rate

k – rate constant

3. What is the IUPAC name of the compound shown?



3-methyl-1-pentene

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4. Show the equation and name the products of the reaction between ethanoic acid and NaOH.

