

MEDICAL UNIVERSITY - PLEVEN, BULGARIA

ANSWER SHEET Sample Test 1

Subject: Chemistry

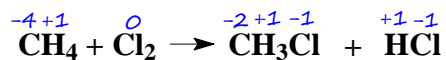
Part A: Multiple Choice Questions

| | | | | |
|----|--------------|--------------|--------------|--------------|
| 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 |
| 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. Identify the reducing and oxidizing agents in the redox reaction



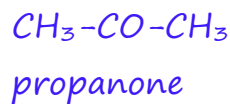
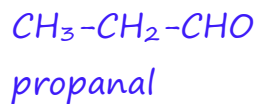
reducing agent $\overset{-4}{\text{C}}(\text{CH}_4)$

oxidizing agent $\overset{0}{\text{Cl}}(\text{Cl}_2)$

2. Write the equilibrium constant expression K_c for the process: $2\text{CO}_{2(g)} \rightleftharpoons 2\text{CO}_{(g)} + \text{O}_{2(g)}$

$$K_c = \frac{[\text{CO}]^2 \times [\text{O}_2]}{[\text{CO}_2]^2}$$

3. Draw the condensed structural (semi-structural) formulas of the compounds propanal and propanone.



4. Complete the following equation and name the products of the reaction:

