MEDICAL UNIVERSITY - PLEVEN, BULGARIA

ANSWER SHEET Sample Test 2

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. Indicate the number of electrons, protons and neutrons in the isotope $^{79}_{35}\mathbf{Br}$.

No. of electrons = 35 No. of protons = 35 No. of neutrons = 44

2. In the following equation, identify the acid, base, conjugate acid and conjugate base:

$$\mathbf{HCN + H_2O \rightleftarrows H_3O^+ + CN^-}$$

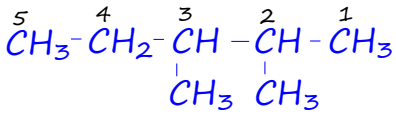
acid HCN conjugate base CN^-

base H_2O conjugate acid H_3O^+

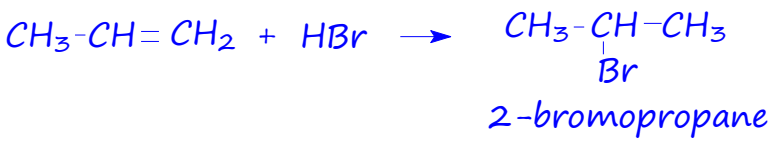
Identify the conjugate acid-base pairs:

HCN / CN^- and H_2O / H_3O^+

3. Write the structural formula of the compound 2,3-dimethylpentane.



4. Show the equation and name the product formed when propene reacts with HBr.



2-bromopropane