MEDICAL UNIVERSITY - PLEVEN, BULGARIA

ANSWER SHEET Sample Test v.2

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. 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:

$HCN + H_2O \rightleftarrows H_3O^+ + CN^-$

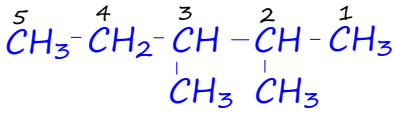
acid HCN conjugate base CN^-

base H_2O conjugate acid H_3O^+

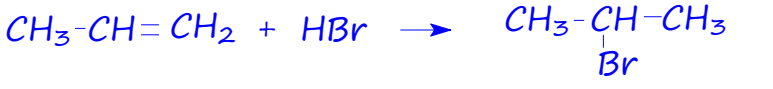
Identify the conjugate acid-base pairs:

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