Review for final_June 2017_chemistry
Answer Section

MULTIPLE CHOICE

1.	ANS: C	PTS: 1	DIF: I	OBJ: 6-1.1
2.	ANS: D	PTS: 1	DIF: I	OBJ: 6-1.1
3.	ANS: B	PTS: 1	DIF: I	OBJ: 6-1.1
4.	ANS: A	PTS: 1	DIF: I	OBJ: 6-1.2
5.	ANS: D	PTS: 1	DIF: I	OBJ: 6-1.2
6.	ANS: D	PTS: 1	DIF: I	OBJ: 6-1.3
7.	ANS: B	PTS: 1	DIF: I	OBJ: 6-1.3
8.	ANS: A	PTS: 1	DIF: I	OBJ: 6-1.3
9.	ANS: C	PTS: 1	DIF: I	OBJ: 6-1.4
10.	ANS: B	PTS: 1	DIF: I	OBJ: 6-1.4
11.	ANS: C	PTS: 1	DIF: I	OBJ: 6-1.4
12.	ANS: C	PTS: 1	DIF: I	OBJ: 6-1.4
13.	ANS: B	PTS: 1	DIF: III	OBJ: 6-1.5
14.	ANS: A	PTS: 1	DIF: III	OBJ: 6-1.5
15.	ANS: C	PTS: 1	DIF: II	OBJ: 6-1.5
16.	ANS: C	PTS: 1	DIF: I	OBJ: 6-2.1
17.	ANS: A	PTS: 1	DIF: I	OBJ: 6-2.1
18.	ANS: B	PTS: 1	DIF: I	OBJ: 6-2.2
19.	ANS: A	PTS: 1	DIF: I	OBJ: 6-2.2
20.	ANS: B	PTS: 1	DIF: I	OBJ: 6-2.2
21.	ANS: C	PTS: 1	DIF: II	OBJ: 6-2.3
22.	ANS: A	PTS: 1	DIF: I	OBJ: 6-2.3
23.	ANS: D	PTS: 1	DIF: I	OBJ: 6-2.3
24.	ANS: B	PTS: 1	DIF: I	OBJ: 6-2.3
25.	ANS: C	PTS: 1	DIF: I	OBJ: 6-2.4
26.	ANS: A	PTS: 1	DIF: I	OBJ: 6-2.4
27.	ANS: B	PTS: 1	DIF: I	OBJ: 6-2.5
28.	ANS: C	PTS: 1	DIF: III	OBJ: 6-2.5
29.	ANS: C	PTS: 1	DIF: III	OBJ: 6-2.5
30.	ANS: B	PTS: 1	DIF: I	OBJ: 6-2.6
31.	ANS: C	PTS: 1	DIF: I	OBJ: 6-3.1
32.	ANS: D	PTS: 1	DIF: II	OBJ: 6-3.1
33.	ANS: D	PTS: 1	DIF: I	OBJ: 6-3.2
34.	ANS: C	PTS: 1	DIF: I	OBJ: 6-3.3
35.	ANS: B	PTS: 1	DIF: II	OBJ: 6-3.3
36.	ANS: A	PTS: 1	DIF: I	OBJ: 6-3.4
37.	ANS: D	PTS: 1	DIF: I	OBJ: 6-4.1
38.	ANS: D	PTS: 1	DIF: I	OBJ: 6-4.1

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Answer Section

39.	ANS: A	PTS: 1	DIF: I	OBJ: 6-4.2
40.	ANS: C	PTS: 1	DIF: I	OBJ: 6-4.3
41.	ANS: C	PTS: 1	DIF: I	OBJ: 6-4.3
42.	ANS: C	PTS: 1	DIF: II	OBJ: 6-5.4
43.	ANS: C	PTS: 1	DIF: I	OBJ: 6-5.4
44.	ANS: D	PTS: 1	DIF: II	OBJ: 6-5.4
45.	ANS: D	PTS: 1	DIF: II	OBJ: 6-5.5
46.	ANS: B	PTS: 1	DIF: I	OBJ: 7-1.1
47.	ANS: D	PTS: 1	DIF: II	OBJ: 7-1.1
48.	ANS: A	PTS: 1	DIF: III	OBJ: 7-1.2
49.	ANS: A	PTS: 1	DIF: III	OBJ: 7-1.3
50.	ANS: B	PTS: 1	DIF: II	OBJ: 7-1.4
51.	ANS: B	PTS: 1	DIF: II	OBJ: 7-1.5
52.	ANS: D	PTS: 1	DIF: II	OBJ: 7-1.6
53.	ANS: B	PTS: 1	DIF: II	OBJ: 7-2.1
54.	ANS: D	PTS: 1	DIF: II	OBJ: 7-2.1
55.	ANS: A	PTS: 1	DIF: III	OBJ: 7-2.2
56.	ANS: D	PTS: 1	DIF: III	OBJ: 7-2.2
57.	ANS: D	PTS: 1	DIF: I	OBJ: 7-3.1
58.	ANS: C	PTS: 1	DIF: III	OBJ: 7-3.2
59.	ANS: A	PTS: 1	DIF: III	OBJ: 7-3.3
60.	ANS: C	PTS: 1	DIF: III	OBJ: 7-3.4
61.	ANS: B	PTS: 1	DIF: III	OBJ: 7-4.2
62.	ANS: B	PTS: 1	DIF: II	OBJ: 7-4.3
63.	ANS: A	PTS: 1	DIF: III	OBJ: 7-4.4
64.	ANS: C	PTS: 1	DIF: I	OBJ: 8-1.1
65.	ANS: B	PTS: 1	DIF: I	OBJ: 8-1.2
66.	ANS: D	PTS: 1	DIF: I	OBJ: 8-1.2
67.	ANS: C	PTS: 1	DIF: I	OBJ: 8-1.3
68.	ANS: D	PTS: 1	DIF: III	OBJ: 8-1.4
69.	ANS: D	PTS: 1	DIF: II	OBJ: 8-2.1
70.	ANS: A	PTS: 1	DIF: II	OBJ: 8-2.2
71.	ANS: D	PTS: 1	DIF: II	OBJ: 8-2.3
72.	ANS: B	PTS: 1	DIF: I	OBJ: 8-2.4
73.	ANS: B	PTS: 1	DIF: I	OBJ: 8-2.4
74.	ANS: B	PTS: 1	DIF: I	OBJ: 8-3.1
75.	ANS: A	PTS: 1	DIF: III	OBJ: 8-3.2
76.	ANS: D	PTS: 1	DIF: I	OBJ: 9-1.1
77.	ANS: A	PTS: 1	DIF: I	OBJ: 9-1.2
78.	ANS: A	PTS: 1	DIF: II	OBJ: 9-1.2
79.	ANS: B	PTS: 1	DIF: III	OBJ: 9-1.3
80.	ANS: D	PTS: 1	DIF: III	OBJ: 9-2.1
81.	ANS: D	PTS: 1	DIF: III	OBJ: 9-2.2
82.	ANS: A	PTS: 1	DIF: III	OBJ: 9-2.3
83.	ANS: C	PTS: 1	DIF: III	OBJ: 9-2.4

84. ANS: C   PTS: 1   DIF: III   OBJ: 9-3.4
85. ANS: B   PTS: 1   DIF: II   OBJ: 9-3.1
86. ANS: D   PTS: 1   DIF: I   OBJ: 9-3.1

SHORT ANSWER

87. ANS:
   Atoms form chemical bonds to establish a more-stable arrangement. As independent particles, they are at high potential energy. By bonding, they decrease their potential energy, thus becoming more stable.

   PTS: 1   DIF: II   OBJ: 6-1.2
88. ANS:
   Atoms in a molecular compound share electrons to achieve stability. Atoms in an ionic compound gain or lose electrons to form ions.

   PTS: 1   DIF: II   OBJ: 6-3.1

PROBLEM

89. ANS:
   83.98 g/mol AlF_3

   26.98 g/mol Al + (3 × 19.00 g/mol F) = 89.3 g/mol AlF_3

   PTS: 1   DIF: III   OBJ: 7-3.1
90. ANS:
   34.8 g NaOH

   $$20.0 \text{ g Na} \times \frac{1 \text{ mol Na}}{22.99 \text{ g Na}} \times \frac{2 \text{ mol NaOH}}{2 \text{ mol Na}} \times \frac{40.00 \text{ g NaOH}}{1 \text{ mol NaOH}} = 34.8 \text{ g NaOH}$$

   PTS: 1   DIF: III   OBJ: 9-3.2