

Chemistry Review Questions and Practice Problems Key – Modules 1-16

(RQ and PP assigned as Extra Credit: M8, 13, and 16)

Generally it is +1 per answer or +1 per step within a question or problem. Whenever clarification of how to count answers is needed, it is noted by the question or problem.

NOTE:

- Total points earned ÷ Total possible points, then multiply by 100 to figure the grade.
- -0.25 on any problem that you did not do the significant figures correctly
- Zero for any answer that you failed to show your units!!

Review Questions Module 1 –

14 possible points (+1 point per answer)

1. 1 point
2. 1 point
3. 1 point
4. 1 point
5. 1 point
6. 2 points
7. 4 points
8. 1 point
9. 1 point
10. 1 point

Review Questions Module 2 –

14 possible points (+1 point per answer)

1. 2 points
2. 4 points
3. 1 point
4. 1 point
5. 1 point
6. 1 point
7. 1 point
8. 1 point
9. 1 point
10. 1 point

Review Questions Module 3 –

22 possible points (+1 point per answer)

1. 2 points
2. 3 points
3. 1 point
4. 4 points
5. 2 points
6. 2 points
7. 2 points
8. 2 points
9. 2 points
10. 2 points

Review Questions Module 4 –

18 possible points (+1 point per answer)

1. 1 point
2. 1 point
3. 1 point
4. 1 point
5. 1 point
6. 1 point
7. 1 point
8. 2 points
9. 8 points (-0.25 for extra answers)
10. 1 point

Practice Problems Module 1 –

18 possible points (+1 point / answer or step)

1. 1 point
2. 1 point
3. 1 point
4. 1 point
5. 1 point
6. 1 point
7. 4 points
8. 4 points
9. 2 points: 2 steps
10. 2 points: 2 steps

Practice Problems Module 2 –

20 possible points (+1 point / answer or step)

1. 1 point
2. 2 points: 2 steps
3. 1 point
4. 2 points: 2 steps
5. 2 points: 2 steps
6. 1 point
7. 2 points: 2 steps
8. 2 points: 2 steps
9. 3 points: 3 steps
10. 4 points: 4 steps

Practice Problems Module 3 –

20 possible points (+1 point / answer or step)

1. 1 point
2. 1 point
3. 4 points
4. 1 point
5. 4 points: **2 steps with +2 per step
6. 1 point
7. 1 point
8. 2 points (-0.25 for extra answers)
9. 3 points
10. 2 points

Practice Problems Module 4 –

22 possible points (+1 point / answer or step)

1. 4 points
2. 4 points
3. 5 points
4. 1 point
5. 1 point
6. 1 point
7. 2 points: +1 for formula, +1 for balanced
8. 2 points: +1 for formula, +1 for balanced
9. 1 point
10. 1 point

Chemistry Review Questions and Practice Problems Key

Review Questions Module 5 –

16 possible points (+1 point per answer)

1. 1 point
2. 5 points
3. 1 point (-0.25 for extra answers)
4. 1 point (-0.25 for extra answers)
5. 2 points
6. 1 point
7. 1 point
8. 1 point
9. 2 points
10. 1 point

Review Questions Module 6 –

16 possible points (+1 point per answer)

1. 2 points
2. 2 points
3. 1 point
4. 2 points
5. 2 points
6. 1 point
7. 2 points
8. 2 points (-0.25 for extra answers)
9. 1 point
10. 1 point

Review Questions Module 7 –

21 possible points (+1 point per answer)

1. 1 point
2. 2 points
3. 1 point
4. 1 point
5. 1 point
6. 1 point
7. 2 points
8. 3 points
9. 2 points
10. 2 points
11. 2 points
12. 3 points

Review Questions Module 8 –

19 possible points (+1 point per answer)

1. 2 points
2. 1 point
3. 1 point
4. 2 points
5. 2 points
6. 2 points
7. 1 point
8. 3 points
9. 2 points
10. 3 points

Practice Problems Module 5 –

18 possible points (+1 point / answer or step)

1. 2 points: +1 for formula, +1 for balanced
2. 2 points: +1 for formula, +1 for balanced
3. 2 points: +1 for formula, +1 for balanced
4. 1 point
5. 2 points: 2 steps
6. 1 point
7. 2 points: 2 steps
8. 2 points: 2 steps
9. 1 point
10. 3 points: 3 steps

Practice Problems Module 6 –

32 possible points (+1 point / answer or step)

1. 3 points: 3 steps
2. 1 point
3. 1 point
4. 1 point
5. 3 points: 3 steps
6. 3 points: 3 steps
7. 3 points: 3 steps
8. 1 point
9. 8 points: 8 steps
10. 8 points: 8 steps

Practice Problems Module 7 –

32 possible points (+1 point / answer or step)

1. 12 points: +3 per letter
2. 3 points (-0.25 for extra answers)
3. 1 point
4. 1 point
5. 1 point
6. 3 points: 3 steps
7. 3 points
8. 3 points
9. 3 points
10. 2 points

Practice Problems Module 8 –

16 possible points (+1 point / answer or step)

1. 3 points (1 / letter)
2. 4 points (1 / letter)
3. 1 point
4. 1 point
5. 1 point
6. 2 points
7. 1 point
8. 1 point
9. 1 point
10. 1 point

Chemistry Review Questions and Practice Problems Key

Review Questions Module 9 –

23 possible points (+1 point per answer)

1. 2 points
2. 6 points (1 / letter)
3. 6 points (1 / letter)
4. 1 point
5. 1 point
6. 2 points
7. 2 points
8. 1 point
9. 1 point
10. 1 point

Review Questions Module 10 –

18 possible points (+1 point per answer)

1. 3 points (1 / letter)
2. 1 point
3. 1 point
4. 2 points (-0.25 for extra answers)
5. 2 points (-0.25 for extra answers)
6. 1 point
7. 4 points (2 / ion)
8. 1 point
9. 2 points
10. 1 point

Review Questions Module 11 –

13 possible points (+1 point per answer)

1. 2 points
2. 2 points
3. 1 point
4. 1 point
5. 1 point
6. 1 point
7. 1 point
8. 1 points
9. 2 points
10. 1 point

Review Questions Module 12 –

17 possible points (+1 point per answer)

1. 4 points
2. 1 point
3. 1 point
4. 1 point
5. 3 points
6. 2 points
7. 2 points
8. 1 point
9. 1 point
10. 1 point

Practice Problems Module 9 –

40 possible points (+1 point / answer or step)

1. 4 points (1 / letter)
2. 4 points (1 / letter)
3. 8 points (4 / formula, 4/ balanced equation)
4. 3 points: shape, bond angle, picture
5. 3 points: shape, bond angle, picture
6. 3 points: shape, bond angle, picture
7. 3 points: shape, bond angle, picture
8. 3 points: shape, bond angle, picture
9. 6 points (1 / letter)
10. 3 points (-0.25 for extra answers)

Practice Problems Module 10 –

33 possible points (+1 point / answer or step)

1. 2 points (1 / equation, 1 / balanced)
2. 2 points (1 / equation, 1 / balanced)
3. 2 points (1 / equation, 1 / balanced)
4. 2 points (1 / equation, 1 / balanced)
5. 7 points: a. 1pt, b.& c. 3 pts (1/step)
6. 2 points: 1 pt for Vol, 1 pt for final answer
7. 3 points: 1 / step, 1 / final answer
8. 5 points: 1 / step
9. 4 points: 1 / step
10. 4 points: 1 / step

Practice Problems Module 11 –

28 possible points (+1 point / answer or step)

1. 2 points
2. 1 point
3. 4 points: 4 steps
4. 3 points: 3 steps
5. 3 points: 3 steps
6. 1 point
7. 3 points: 3 steps
8. 1 point
9. 5 points: 5 steps
10. 5 points: 5 steps

Practice Problems Module 12 –

33 possible points (+1 point / answer or step)

1. 1 point
2. 3 points: 3 steps
3. 2 points: 2 steps
4. 1 point (-0.25 for incorrect sig. fig.)
5. 7 points: 7 steps
6. 3 points
7. 4 points: 4 steps
8. 3 points: 3 steps
9. 5 points: 5 steps
10. 4 points: 4 steps

Chemistry Review Questions and Practice Problems Key

Review Questions Module 13 –

15 possible points (+1 point per answer)

1. 2 points
2. 1 point
3. 1 point
4. 2 points
5. 2 points (-0.25 for extra answers)
6. 2 points
7. 1 point
8. 1 point
9. 2 points
10. 1 point

Review Questions Module 14 –

14 possible points (+1 point per answer)

1. 1 point
2. 1 point
3. 2 points
4. 2 points
5. 1 point
6. 2 points
7. 1 point
8. 1 point
9. 2 points
10. 1 point

Review Questions Module 15 –

11 possible points (+1 point per answer)

1. 1 point
2. 1 points
3. 1 point
4. 2 point
5. 1 point
6. 1 point
7. 1 point
8. 1 point
9. 1 point
10. 1 point

Review Questions Module 16 –

18 possible points (+1 point per answer)

1. 1 point
2. 2 points
3. 1 point
4. 2 points
5. 1 point
6. 2 points
7. 2 points
8. 3 points
9. 2 points
10. 2 points

Practice Problems Module 13 –

23 possible points (+1 point / answer or step)

1. 2 points: 2 steps
2. 2 points: 2 steps
3. 1 point
4. 3 points: 3 steps
5. 4 points: 4 steps
6. 3 points (1 pt / letter)
7. 1 point
8. 3 points: 3 steps
9. 2 points
10. 2 points

Practice Problems Module 14 –

18 possible points (+1 point / answer or step)

1. 1 point
2. 3 points: 3 steps
3. 3 points: 3 steps
4. 3 points: 3 steps
5. 1 point
6. 1 point
7. 1 point
8. 1 point
9. 3 points
10. 1 point

Practice Problems Module 15 –

25 possible points (+1 point / answer or step)

1. 2 points: 2 steps
2. 2 points: 2 steps
3. 3 points
4. 3 points: 3 steps
5. 3 points: 3 steps
6. 3 points (1 pt / letter)
7. 2 points (1 pt / letter)
8. 3 points (1 pt / letter)
9. 2 points: 2 steps
10. 2 points: 2 steps

Practice Problems Module 16 –

44 possible points (+1 point / answer or step)

1. 5 points (1 pt / letter)
2. 8 points (1 pt / letter)
3. 2 points
4. 2 points
5. 2 points
6. 2 points
7. 11 points (1 pt / letter)
8. 6 points (1 pt / item asked for)
9. 6 points (1 pt / item asked for)