

For questions on Page 12-20

Chapter 1 Practice questions
Answer Section

MULTIPLE CHOICE

1. ANS: B PTS: 1
2. ANS: C PTS: 1
3. ANS: A PTS: 1
4. ANS: A PTS: 1
5. ANS: E PTS: 1
6. ANS: B PTS: 1
7. ANS: A PTS: 1
8. ANS: A PTS: 1
9. ANS: E PTS: 1
10. ANS: D PTS: 1
11. ANS: E PTS: 1
12. ANS: D PTS: 1
13. ANS: A PTS: 1
14. ANS: C PTS: 1
15. ANS: E PTS: 1
16. ANS: C PTS: 1
17. ANS: A PTS: 1
18. ANS: D PTS: 1
19. ANS: C PTS: 1
20. ANS: D PTS: 1
21. ANS: B PTS: 1
22. ANS: E PTS: 1
23. ANS: B PTS: 1
24. ANS: C PTS: 1
25. ANS: B PTS: 1
26. ANS: D PTS: 1
27. ANS: A PTS: 1
28. ANS: D PTS: 1
29. ANS: D PTS: 1
30. ANS: B PTS: 1
31. ANS: C PTS: 1
32. ANS: D PTS: 1
33. ANS: A PTS: 1
34. ANS: C PTS: 1
35. ANS: D PTS: 1
36. ANS: C PTS: 1
37. ANS: B PTS: 1
38. ANS: C PTS: 1
39. ANS: E PTS: 1
40. ANS: C PTS: 1

- 41. ANS: A PTS: 1
- 42. ANS: E PTS: 1
- 43. ANS: E PTS: 1
- 44. ANS: E PTS: 1
- 45. ANS: D PTS: 1
- 46. ANS: C PTS: 1
- 47. ANS: D PTS: 1
- 48. ANS: B PTS: 1
- 49. ANS: C PTS: 1
- 50. ANS: C PTS: 1
- 51. ANS: C PTS: 1
- 52. ANS: A PTS: 1

COMPLETION

- 53. ANS: theory

PTS: 1
- 54. ANS: 1000

PTS: 1
- 55. ANS: heterogeneous

PTS: 1
- 56. ANS: density

PTS: 1
- 57. ANS: filtration

PTS: 1
- 58. ANS: distillation

PTS: 1

For questions on Page 31-39

Chapter 2 sample questions
Answer Section

MULTIPLE CHOICE

1. E
2. A
3. D
4. B
5. C
6. E
7. D
8. A
9. C
10. C
11. E
12. A
13. E
14. C
15. B
16. D
17. D
18. B
19. E
20. C
21. D
22. A
23. A
24. E
25. D
26. B
27. D
28. D
29. A
30. B
31. A
32. B
33. C
34. B
35. A
36. D
37. B
38. B
39. C
40. C

41. E
42. A
43. D
44. B
45. C
46. D
47. B
48. C
49. A
50. E
51. D
52. C

COMPLETION

53. polonium
54. allotropes
55. alkali
56. mass
57. atomic number
58. sulfur
59. boron, silicon, germanium, arsenic (antimony, and tellurium)
60. hydrogen, carbon, oxygen, and nitrogen

For questions on Page 47-54

Chapter 3 sample questions
Answer Section

MULTIPLE CHOICE

1. B D
2. C
3. B
4. E
5. B
6. A
7. E
8. C
9. A
10. A
11. D
12. A
13. C
14. D
15. C
16. B
17. E
18. A
19. C
20. E
21. C
22. A
23. B
24. A
25. E
26. B
27. C
28. D
29. B
30. A
31. C
32. A
33. E
34. C
35. E
36. D
37. C
38. E

COMPLETION

39. stoichiometric
40. oxygen
41. theoretical yield
42. Antoine Lavoisier
43. 1.29 g
44. 71.5%

ANSWERS — CHAPTER 3

- | | | | | | |
|-----|---|-----|--------------------------------|-----|---------------|
| 1. | d | 11. | d | 21. | a |
| 2. | a | 12. | b | 22. | c |
| 3. | c | 13. | c | 23. | i = c, ii = d |
| 4. | b | 14. | d | 24. | b |
| 5. | d | 15. | b | 25. | c |
| 6. | b | 16. | d | 26. | a |
| 7. | c | 17. | a | 27. | b |
| 8. | a | 18. | c | 28. | b |
| 9. | d | 19. | d | 29. | c |
| 10. | b | 20. | c | 30. | c |
| 31. | b | 41. | a | | |
| 32. | b | 42. | b | | |
| 33. | a | 43. | a | | |
| 34. | d | 44. | b | | |
| 35. | b | 45. | d | | |
| 36. | a | 46. | a | | |
| 37. | c | 47. | b | | |
| 38. | c | 48. | c | | |
| 39. | d | 49. | b | | |
| 40. | c | 50. | i = c, ii = b, iii = c, iv = b | | |

For questions on Page 71-82

ANSWERS

- | | | |
|---|---|-------------------------------|
| 1. b | 11. c | 21. b |
| 2. c | 12. c | 22. c |
| 3. c | 13. b | 23. a |
| 4. d | 14. a | 24. b |
| 5. a | 15. b | 25. c |
| 6. b | 16. c | 26. d |
| 7. d | 17. a | 27. b |
| 8. c | 18. c | 28. a |
| 9. c | 19. d | 29. c |
| 10. b | 20. a | 30. d |
|
 | | |
| 31. a | 41. c | 51. c |
| 32. c | 42. c | 52. a |
| 33. b | 43. d | 53. d |
| 34. a | 44. a | 54. c |
| 35. d | 45. d | 55. b |
| 36. b | 46. i = -2, ii = +6, iii = +1
iv = -1, v = +3, vi = +5 | 56. a |
| 37. c | 47. b | 57. i = a, ii = c |
| 38. c | 48. c | 58. d |
| 39. c | 49. a | 59. i = a, ii = c,
iii = b |
| 40. a | 50. c | 60. d |
|
 | | |
| 61. b | | |
| 62. b | | |
| 63. b | | |
| 64. b | | |
| 65. i = +5, +7; ii = U^{4+} , MnO_4^- ; iii = a | | |

For questions on Page 89-96**ANSWERS**

- | | | | | | |
|-----|---|-----|---|-----|---|
| 1. | d | 11. | b | 21. | b |
| 2. | a | 12. | c | 22. | a |
| 3. | d | 13. | c | 23. | d |
| 4. | c | 14. | d | 24. | b |
| 5. | c | 15. | c | 25. | b |
| 6. | a | 16. | a | 26. | c |
| 7. | d | 17. | d | 27. | a |
| 8. | c | 18. | b | 28. | d |
| 9. | d | 19. | c | 29. | b |
| 10. | a | 20. | d | 30. | c |
| 31. | d | 41. | a | | |
| 32. | b | 42. | b | | |
| 33. | c | 43. | b | | |
| 34. | c | 44. | c | | |
| 35. | a | 45. | a | | |
| 36. | d | 46. | c | | |
| 37. | b | 47. | a | | |
| 38. | a | 48. | d | | |
| 39. | c | 49. | a | | |
| 40. | d | 50. | d | | |

For questions on Page 105-114

Chapter 7 — Atomic Structure

ANSWERS — CHAPTER 7

- | | | | | | |
|-----|--|-----|---|-----|---|
| 1. | b | 11. | d | 21. | d |
| 2. | d | 12. | b | 22. | c |
| 3. | a | 13. | c | 23. | d |
| 4. | a | 14. | a | 24. | c |
| 5. | d | 15. | c | 25. | d |
| 6. | b | 16. | d | 26. | a |
| 7. | a | 17. | c | 27. | a |
| 8. | d | 18. | c | 28. | b |
| 9. | c | 19. | d | 29. | a |
| 10. | a | 20. | b | 30. | c |
| 31. | b | 41. | a | 51. | a |
| 32. | d | 42. | c | 52. | c |
| 33. | i = 10; ii = 5,1; iii = 5,4 | 43. | b | 53. | b |
| 34. | i = green; ii: 500 = green
and 680 = red; iii = green | 44. | c | 54. | i = 0, 1, 2, 3
ii = d
iii = size, shape
iv = 4, 2, -1
v = 5, 3, +3
vi(a) = d, 2
vi(b) = s, 0
vi(c) = p, 1
vii = 2
viii = p |
| 35. | b | 45. | c | | |
| 36. | b | 46. | b | | |
| 37. | b | 47. | a | | |
| 38. | b | 48. | c | | |
| 39. | d | 49. | a | | |
| 40. | d | 50. | c | | |