## ANSWER KEY

## Significant figures, Units for measurement, Matter and Separation of mixture

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **a** | **2** | **d** | **3** | **a** | **4** | **c** | **5** | **d** |
| **6** | **b** | **7** | **c** | **8** | **d** | **9** | **c** | **10** | **c** |
| **11** | **c** | **12** | **b** | **13** | **a** | **14** | **c** | **15** | **b** |
| **16** | **b** | **17** | **b** | **18** | **a** | **19** | **a** | **20** | **c** |
| **21** | **b** | **22** | **d** | **23** | **a** | **24** | **a** | **25** | **b** |
| **26** | **b** | **27** | **d** |  |  |  |  |  |  |

## Laws of chemical combination

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **a** | **2** | **d** | **3** | **c** | **4** | **a** | **5** | **c** |
| **6** | **c** | **7** | **c** | **8** | **b** | **9** | **b** | **10** | **a** |
| **11** | **c** | **12** | **b** | **13** | **a** | **14** | **d** | **15** | **b** |
| **16** | **a** | **17** | **c** | **18** | **d** | **19** | **c** | **20** | **a** |
| **21** | **c** | **22** | **d** |  |  |  |  |  |  |

## Atomic, Molecular and Equivalent masses

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **c** | **2** | **b** | **3** | **a** | **4** | **a** | **5** | **b** |
| **6** | **c** | **7** | **d** | **8** | **b** | **9** | **a** | **10** | **b** |
| **11** | **a** | **12** | **b** | **13** | **a** | **14** | **c** | **15** | **b** |
| **16** | **c** | **17** | **a** | **18** | **d** | **19** | **a** | **20** | **a** |
| **21** | **b** | **22** | **b** | **23** | **d** | **24** | **c** | **25** | **a** |
| **26** | **a** | **27** | **c** | **28** | **d** | **29** | **a** | **30** | **c** |
| **31** | **a** | **32** | **d** | **33** | **b** | **34** | **a** | **35** | **c** |
| **36** | **b** | **37** | **b** | **38** | **c** | **39** | **a** | **40** | **b** |
| **41** | **c** | **42** | **d** | **43** | **a** | **44** | **d** | **45** | **d** |
| **46** | **b** | **47** | **c** | **48** | **c** | **49** | **b** | **50** | **b** |
| **51** | **a** | **52** | **b** | **53** | **b** | **54** | **c** | **55** | **b** |
| **56** | **a** | **57** | **d** | **58** | **d** | **59** | **a** | **60** | **d** |
| **61** | **c** | **62** | **d** | **63** | **b** |  |  |  |  |

## The mole concept

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **a** | **2** | **b** | **3** | **b** | **4** | **c** | **5** | **a** |
| **6** | **b** | **7** | **a** | **8** | **c** | **9** | **d** | **10** | **c** |
| **11** | **b** | **12** | **c** | **13** | **c** | **14** | **d** | **15** | **a** |
| **16** | **a** | **17** | **b** | **18** | **b** | **19** | **a** | **20** | **a** |
| **21** | **b** | **22** | **b** | **23** | **c** | **24** | **a** | **25** | **a** |
| **26** | **c** | **27** | **d** |  |  |  |  |  |  |

## Percentage composition & Molecular formula

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **a** | **2** | **a** | **3** | **b** | **4** | **d** | **5** | **a** |
| **6** | **b** | **7** | **b** |  |  |  |  |  |  |

## Chemical stoichiometry

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **c** | **2** | **c** | **3** | **a** | **4** | **c** | **5** | **c** |
| **6** | **c** | **7** | **c** | **8** | **b** | **9** | **a** | **10** | **d** |
| **11** | **c** | **12** | **d** | **13** | **d** | **14** | **b** | **15** | **a** |
| **16** | **b** | **17** | **b** | **18** | **c** | **19** | **d** | **20** | **c** |
| **21** | **d** | **22** | **c** | **23** | **d** | **24** | **a** | **25** | **d** |
| **26** | **b** | **27** | **b** | **28** | **b** | **29** | **c** | **30** | **a** |
| **31** | **b** | **32** | **c** | **33** | **b** | **34** | **c** | **35** | **d** |
| **36** | **d** | **37** | **b** | **38** | **d** | **39** | **a** | **40** | **b** |
| **41** | **b** | **42** | **c** | **43** | **c** | **44** | **d** | **45** | **a** |
| **46** | **b** | **47** | **a** | **48** | **a** | **49** | **a** | **50** | **d** |
| **51** | **c** | **52** | **b** | **53** | **a** | **54** | **b** | **55** | **b** |
| **56** | **b** | **57** | **a** | **58** | **c** |  |  |  |  |

## Critical Thinking Questions

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **d** | **2** | **b** | **3** | **b** | **4** | **a** | **5** | **c** |
| **6** | **b** | **7** | **b** | **8** | **b** | **9** | **a** | **10** | **d** |
| **11** | **a** | **12** | **c** | **13** | **a** | **14** | **d** | **15** | **c** |
| **16** | **c** | **17** | **a** | **18** | **b** |  |  |  |  |

## Assertion & Reason

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **e** | **2** | **e** | **3** | **c** | **4** | **e** | **5** | **d** |
| **6** | **d** | **7** | **a** | **8** | **c** | **9** | **a** | **10** | **b** |
| **11** | **a** | **12** | **e** | **13** | **e** | **14** | **a** | **15** | **a** |