

CHEMISTRY

SPB

DATE: \_\_\_\_\_

11<sup>th</sup> ACHIEVEMENT TEST - ANSWER KEY

- |    |     |   |
|----|-----|---|
| 1  | (b) | Oxygen                                      |
| 2  | (a) | 102 g                                       |
| 3  | (d) | 1 moles of HCl (g)                          |
| 4  | (a) | NO  |
| 5  | (c) | The ratio between The number.               |
| 6  | (a) | 3.59 g                                      |
| 7  | (a) | propene                                     |
| 8  | (d) | Stark effect                                |
| 9  | (d) | $n = 6$ to $n = 5$                          |
| 10 | (a) | If both assertion and reason are true.      |
| 11 | (b) | Spin quantum number                         |
| 12 | (c) | $4l + 2$                                    |
| 13 | (a) | 9   |
| 14 | (b) | 17  |
| 15 | (d) | 0.4   |
| 16 | (d) | bismuth                                     |
| 17 | (d) | f-block elements                            |
| 18 | (d) | Fluorine                                    |
| 19 | (a) | Amongst the isoelectronic species, smaller. |
| 20 | (d) | Hydrogen                                    |
| 21 | (c) | Argon                                       |
| 22 | (c) | Oxygen                                      |
| 23 | (d) | Be and Al                                   |
| 24 | (b) | Ortho isomer has zero nuclear spin.         |
| 25 | (d) | group one elements.                         |



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|----|----|--------------------------------------|
| 26 | d, | EDTA                                 |
| 27 | b, | calcium aluminium silicate           |
| 28 | d, | 8.4                                  |
| 29 | c, | intra molecular H-bonding and H.     |
| 30 | c, | amphoteric                           |
| 31 | d, | none of these                        |
| 32 | c, | Kerosene                             |
| 33 | d, | aluminium                            |
| 34 | a, | Castner's process                    |
| 35 | c, | its salts are rarely hydrolysed      |
| 36 | c, | milk of lime                         |
| 37 | d, | $\text{Li}_2\text{CO}_3$             |
| 38 | d, | at high pressure the intermolecular. |
| 39 | b, | exert no attractive force on each.   |
| 40 | b, | Boyle temperature                    |
| 41 | c, | diffusion                            |
| 42 | b, | Near the hydrogen chloride bottle    |
| 43 | c, | P                                    |
| 44 | b, | $\text{NH}_3(\text{g})$              |
| 45 | b, | $\Delta H$                           |
| 46 | d, | decrease in free energy              |
| 47 | b, | $q=0$                                |
| 48 | b, | negative                             |
| 49 | d, | frictional energy                    |
| 50 | a, | $\Delta H < 0$ and $\Delta S > 0$    |

- 51 (c) adiabatic expansion
- 52 (a) The forward reaction is exothermic
- 53 (a) increase in pressure
- 54 (a) for a system at equilibrium, it is always
- 55 (a) largely towards forward direction
- 56 (a) Equilibrium is possible only in a closed.
- 57 (a) remain the same
- 58 (d) 0.04M
- 59 (c) CO<sub>2</sub>
- 60 (b)  $\pi V = nRT$
- 61 (b) mole fraction of solute
- 62 (c) ideal and shows negative deviation.
- 63 (b) 1
- 64 (d) 0.92
- 65 (d) H<sub>2</sub>O
- 66 (b) four equivalent orbitals at 109°28'.
- 67 (d) ICl<sub>2</sub>
- 68 (c) C<sub>2</sub>H<sub>2</sub>
- 69 (c) 'T' shaped
- 70 (c) The resonance hybrid should have.
- 71 (d) 40
- 72 (a) CH<sub>3</sub>-CH=CH-CH<sub>3</sub>
- 73 (c) C<sub>n</sub>H<sub>2n-2</sub>
- 74 (c) 3
- 75 (d) Glucose.



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|-----|---|--|
| 76  | b | dimethylether                          |
| 77  | c | 9                                      |
| 78  | c | Steam distillation                     |
| 79  | d | both (a) and (c)                       |
| 80  | c | fractional distillation                |
| 81  | a | $sp^2$                                 |
| 82  | d | free radical                           |
| 83  | c | both                                   |
| 84  | c | both                                   |
| 85  | a | both assertion and reason are true.    |
| 86  | d | Carbanion and Carbocation              |
| 87  | d | $BF_3$                                 |
| 88  | c | Planar                                 |
| 89  | b | $C_n H_{2n}$                           |
| 90  | a | $C_3H_6$                               |
| 91  |   | Geometrical isomers.                   |
| 92  | d | Slower                                 |
| 93  | a | chloro benzene                         |
| 94  | a | n-Butyl chloride                       |
| 95  | d | Fluoromethane                          |
| 96  | a | chlorobenzene                          |
| 97  | b | Swarts reaction                        |
| 98  | a | <del>acetaldehyde</del> allyl chloride |
| 99  | a | acetaldehyde                           |
| 100 | b | phenol                                 |