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| **ANSWER KEY – UNIT TEST – 22.05.2022** |
| 1 | 1.
2.
3.
 | any 211 |
| 2 | 1.
2.
 | 11 |
| 34 | 1. insectide; antiseptic
2. 1-Bromopentane; 1-Bromo-2-methylbutane

OR1. Phenol – neutral Ferric chloride – violet colouration

Benzoic acid – does not answer1. But-2-en-1-ol
2.

OR | ½ + ½ 1+1 (reasons)111 ½ ½ 11111 |
| 5 |  | 6x1/2 =3 |
| 6 | 1. due to the repulsive interaction between the two bulky (–R) groups.
2. acetone as a byproduct which is also a commercial product
3. Intermolecular H-bonding Vs van der Waals forces
 | 111 |
| 7 | 1. Chloroethane b. 4-Ethylphenol c.
 | 1 +1=+1 |
| 89.  | 1. The objects which are non-superimposable on their mirror image (like a pair of hands) are said to be chiral and this property is known as chirality + Example
2. Groups like cyanides and nitrites possess two nucleophilic centres and are called ambident nucleophiles + example
3. A mixture containing two enantiomers in equal proportions will have zero optical rotation, racemic mixture or racemic modification+example
4. **(A) < (B) <(C) – Alcohols with halogen acids**
5. **(a) < (c) < (d) < (b) - densities**
6. **(c) < (a) < (b) – boiling point**

**OR**1. **(a) < (c) < (b) – reactivity towards nucleophilic substitution.**
2. B<A<C – melting point
3. C6H5C(CH3 )(C6H5 )Br > C6H5CH(C6H5 )Br > C6H5CH(CH3 )Br > C6H5CH2Br (SN1)
 | ½ + ½ ½ + ½ ½ + ½1+1+1 1+1+1 |
| 10.A10B  |

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|  |  |
|  | **OR**Resonance of Anisole + Explanation  |
|  |  |

 | 1+1+111OR1+1 |