employed as a starting material for the production of acetic acid. It is, nevertheless, utilised to make bakelite, glues, and polymeric items. In the silvering of mirrors, it also works as a reducing agent. 7. Which of the following compounds is formed when benzyl alcohol is oxidised with KMnO4? a) CO₂ and H₂O b) Benzoic acid c) Benzaldehyde d) Benzophenone **Answer**: b **Explanation**: When benzyl alcohol is oxidised with KMnO₄, benzoic acid is the result. 8. At 287K, which of the following is a gas? a) Propanal b) Acetaldehyde c) Formaldehyde d) Acetone Answer: c **Explanation**: At room temperature, methane is a foul-smelling gas. Ethanal is a volatile liquid that boils at 294 degrees Fahrenheit. At room temperature, other aldehydes and ketones exist as liquids or solids. 9. Which of the following substances is the least water-soluble? a) Methanal b) Pentanal

c) Propanone

d) Ethanal

Answer: b

Explanation: As polar carbonyl group may establish hydrogen bonds with water molecules, the lower aldehydes and ketones are miscible in water in all quantities. However, as the length of the alkyl chain grows longer, the solubility drops dramatically. Aldehydes and ketones with more than four carbon atoms are nearly water- insoluble.

10. Which of these has the least unpleasant odour?

a) Methanal

b) Butanal

c) Propanal

d) Ethanal

Answer: b

Explanation: The odour gets less strong and more fragrant as the size of the aldehyde molecule grows. Methanal has the strongest odour of all the