**Module 4.2.3 Organic Synthesis**

1. Define the following terms:
2. Distillation
3. Reflux **(2)**
4. Propan-1-ol is oxidised with acidified K2Cr2O7 using a quick fit apparatus. Outline the step that you would need to separate propanal from propanoic acid. **(3 )**
5. In the lab an organic liquid needs to be purified, outline the steps that would need to carry out to purify the organic liquid. **(2)**
6. The organic liquid prepared in the lab has traces of water and impurities , outline the steps that would need to carry out to dry and purify the organic product **(4)**
7. Draw a synthetic route and state the reagents and conditions for each of the following conversions:
8. Pent-2-ene into pentan-2-ol
9. Propene to propanone
10. chlorobutane to butanal **(9 )**

**TOTAL = 20 marks**

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