17.1: Circle **one** of the following and give **two** different reasons why its functional and/or aesthetic characteristics are suited for the intended use.

* **High impact polystyrene (HIPS)** – for moulded yoghurt pots
* **Bleed proof paper** – for drawing rendered designs with marker pens
* **Stainless steel** – for a cutlery set
* **Beech** – for a child’s wooden train set
* **Cotton** – for a pair of hiking socks
* **Buzzer** – for use in a battery operated electronic quiz game

1. [2 marks]

2. [2 marks]

17.2: Choose one of the materials or components listed in **17.1** and name **one** of the primary sources it is made from. [1 mark]

18: Manufacturers and designers often conduct a **‘lifecycle assessment’** to understand the impact that a product or a service has on the environment.

Describe the five stages of a lifecycle assessment and evaluate how the
results could influence the way a product is manufactured. [8 marks]