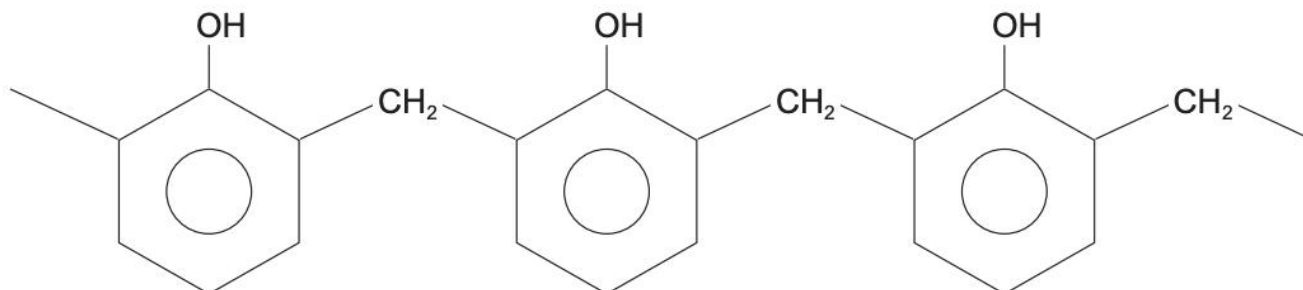


Question 35**(6 marks)**

Bakelite was one of the first commercially-produced plastics. It is formed from monohydroxybenzene, $\text{C}_6\text{H}_5\text{OH}$, and methanal through a complex reaction that produces species that then undergo a condensation reaction to form the polymer bakelite.

A section of the bakelite polymer is shown below.



- (a) Draw the structures of the initial compounds showing all atoms and bonds. (4 marks)

Monohydroxybenzene	Methanal

- (b) State **two** characteristics of a condensation polymer reaction. (2 marks)

One: _____

Two: _____
