25. Which set of conditions below would optimise the yield of methanol in the following industrial process?

$$CO(g) + 2 H_2(g) \rightleftharpoons CH_3OH(g)$$
 $\Delta H = -90 \text{ kJ mol}^{-1}$

- (a) low pressure, high temperature
- (b) high pressure, high temperature, catalyst
- (c) low pressure, low temperature, catalyst
- (d) high pressure, low temperature