**Questions:”Alcohol Fermentation”**

1. **How much energy is released when 10 mol of glucose react to form water and carbon dioxide during cellular respiration?**

Eanaerobic = energy released during anaerobic respiration

H = energy released per mole of glucose (anaerobic respiration) (given)

nglucose  = moles of glucose (given)

Eanaerobic = H nglucose

**=** 105 kJ/mol 10 mol  
 = 1050 kJ

Anaerobic respiration produces 5 % of the energy that cellular respiration produces.

E anaerobic = 1050 kJ 5 = 210 kJ(Energy produced for 1 %)

Ecellular = 100 210 kJ = 21 000 kJ

**21 000 kJ of energy are released when 10 mol of glucose react during cellular respiration.**