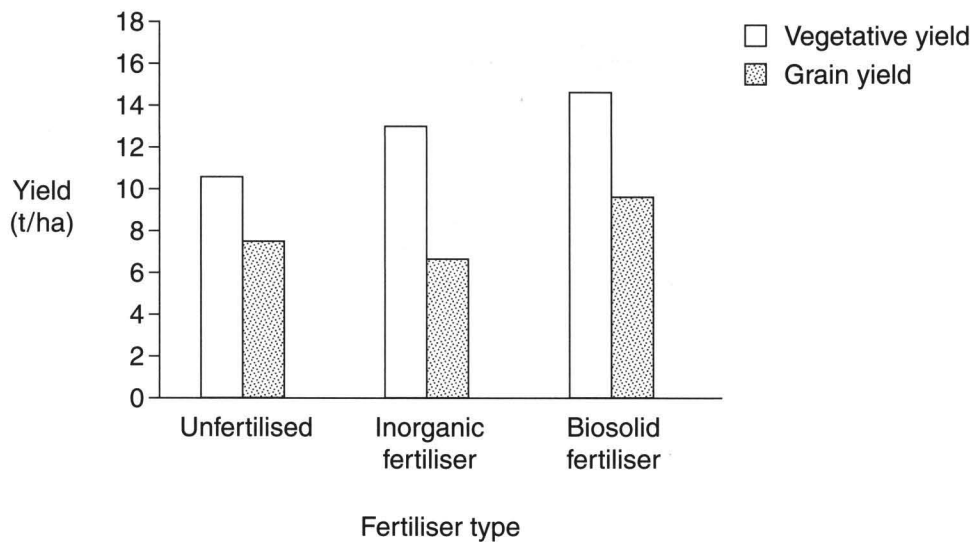


**Question 25** (7 marks)

Digested 'biosolid' (the solid residue produced from effluent) is being applied as a fertiliser as an alternative to inorganic fertilisers.

A study was carried out to investigate the effects of biosolid fertiliser on the growth and grain yield of maize. The level of vegetative yield (t/ha) and grain yield (t/ha) are shown.



- (a) Explain why the grain yield from the application of inorganic fertiliser differed from that of the control. 3

The inorganic fertilizer had a negative affect on grain yield. This could be due to the grains not being used to such a supply or the fertilizer didnt have the right requirements for grain growth.

Question 25 continues on page 18

Question 25 (continued)

- (b) Explain why a maize producer may decide NOT to use biosolid fertiliser.

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A maize producer may decide not to use biosolid fertiliser as an inorganic fertiliser is cheaper and much more readily available and is easier to produce.

**End of Question 25**