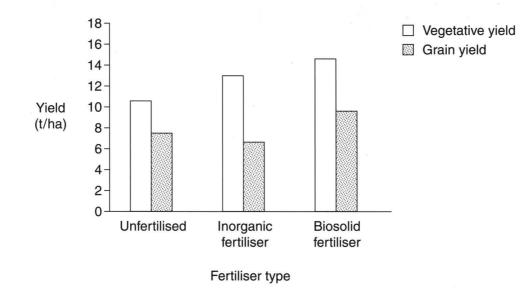
Question 25 (7 marks)

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 3from that of the control.

The history of the field is UNKNOWN therefore it could be possible the field had a rotation of legumes before the that which had done better in that area of the field. The difference in yield cauld also be the timing of the application of the fertiliser; with as if it was applied during the tillering stage which from the graphis probable, then the fertiliser would increase the regetative yield and not the 3004 grain yield. -17Question 25 (continued)

Explain why a maize producer may decide NOT to use biosolid fertiliser. (b) reidea a notor 151 uent fertiliz 5 Ø NUNI 15 Ķ ODE FOr Such filiser. KS YOU 0 0 the bios 10 may also 1 æ move expensive usual alternative making it than the practice. an unfeasible

End of Question 25