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Life Sciences P1 12 OBE/Feb. - Mar. 2011  
NSC

3.2 Read the paragraph below and answer the questions that follow.

**MALE CONTRACEPTIVE CHEMICAL**

Gossypol is a chemical which is extracted from the seeds of cotton plants. When gossypol was given to rats, mice, dogs and monkeys, it caused a reduction in the fertility of the male animals by reducing their sperm count.

Scientists wanted to investigate the idea that gossypol could be used as a human male contraceptive.

(Adapted from: *Life and Life's*, 1987)

- 3.2.1 State a hypothesis for the investigation that scientists wanted to do. (3)
- 3.2.2 State FOUR planning steps that must be followed by researchers before the investigation above is undertaken on humans. (4)
- 3.2.3 In the investigation above, name the following:
  - (a) Dependent variable (1)
  - (b) Independent variable (1)
- 3.2.4 Explain ONE reason why some people might:
  - (a) Support research on male contraception (2)
  - (b) Object to research on male contraception (2)(13)

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