

QUESTION 3

3.1 Scientists investigated the resistance of mosquitos to DDT.

The following steps were followed:

- They captured a sample of mosquitos from the environment.
- The mosquitos were then exposed to a standard dose of DDT (4% DDT for 1 hour) in the laboratory.
- The number of mosquitos that died was counted.
- Those that survived were left to reproduce.
- A sample was taken from this population every two months and the same procedure was followed for a period of 16 months.

The results are shown in the table below.

TIME (IN MONTHS)	MORTALITY OF MOSQUITOES (%)
0	95
2	87
4	80
6	69
8	60
10	54
12	35
14	27
16	22

3.1.1 Identify the:

- (a) Independent variable (1)
- (b) Dependent variable (1)

3.1.2 Formulate a hypothesis for this investigation. (3)

3.1.3 Draw a line graph to show how the mortality of mosquitoes changed over the period of the investigation due to the application of DDT. (6)

3.1.4 State TWO factors, other than those mentioned, that should be controlled in this investigation. (2)

3.1.5 State TWO ways in which the scientists could improve the reliability of their results. (2)

3.1.6 Explain, in terms of natural selection, how mosquitoes may develop resistance to DDT. (8)
(23)

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