

OCR

A Level

A Level Biology

Artificial Selection Answers

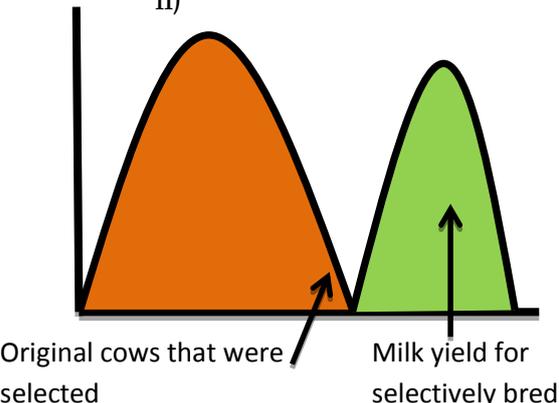
Name:

M M E

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Total Marks: /13

Artificial Selection

Answer	Marks
<p>1.</p> <p>a)</p> <p>i) Organisms bred for specific characteristics/ may not be linked to survival e.g. aesthetics.</p> <p>ii) Individuals in a population must have an advantageous characteristic as a result of different gene/ alleles = variation</p> <p>iii) Desirable characteristics are as a result of genes not the environment</p> <p>b)</p> <p>i) Cows that produce the most milk in the herd are identified</p> <ul style="list-style-type: none"> - These cows are only allowed to reproduce with each other - Those offspring that exhibit this high milk yield are selected for and are allowed to reproduce. - Process is repeated until the entire herd produces a high milk yield <p>ii)</p>  <p>Original cows that were selected</p> <p>Milk yield for selectively bred</p>	<p>1 mark</p> <p>1 mark</p> <p>1 mark</p> <p>4 marks</p> <p>2 marks</p>

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iii) Directional	1 mark
iv) – high yield of food (fruit/leaves etc.) <ul style="list-style-type: none">- Pest/disease resistance- Tolerant for harsh environmental conditions- Aesthetic features/ colour- Taste	3 marks