 Province of the

EASTERN CAPE

EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT**

**(SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET ANSWER SHEET**

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| --- | --- | --- | --- | --- | --- |
| **SUBJECT** | LIFE SCIENCES | **GRADE** | 12 | **DATE** |  07 April 2020 |
| **TOPIC** | INHERITANCE OF BLOOD GROUPS (MULTIPLE ALLELES)Drop Talking Stock Illustrations – 327 Drop Talking Stock ... | **TERM 1****REVISION** |  | **TERM 2 CONTENT** | 🗸 |

**WORKSHEET: INHERITANCE OF BLOOD GROUPS 16 MARKS**

1. Write down the genotype for each individual based on the description given below.
	1. Homozygous for the “B” allele \_\_\_\_\_\_
	2. Heterozygous for the “A” allele \_\_\_\_\_\_
	3. Type O \_\_\_\_\_\_
	4. Blood group “A” and had a blood group “O” parent \_\_\_\_\_\_
	5. Type “AB” \_\_\_\_\_\_ (5)

1. Bob is married to Anne and they decide to have a baby. Bob is heterozygous for blood group B and Anne is blood group O.

What are the possible blood groups of their future children? Indicate the genotypic and phenotypic ratios of the children. (6)

3.

3.1

3.2

3.3

|  |
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|         |

TOTAL = 16

TYPICAL EXAM QUESTIONS: DO Q 2.4 P2 NOV 2018;

 Q 1.4 NOV 2017

**LEARNER ACTIVITY: TYPES OF DOMINANCE**

1. Study the diagrams below and answer the questions:

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| KEY: Black fish (B) x Grey fish (G)  |

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| --- | --- |
| **Type of dominance**  |   |
| **Description**  |    |
| **Crossing**  |       |

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|  |
| KEY: Red bird (A) x Blue bird (a)  |

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| --- | --- |
| **Type of dominance**  |   |
| **Description**  |      |
| **Crossing**  |          |

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| whiteredpink  |
| Key: Red flower (R)x White flower (W)  |

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| --- | --- |
| **Type of dominance**  |   |
| **Description**  |      |
| **Crossing**   |           |

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**TOTAL 15**