 Province of the

EASTERN CAPE

EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT**

**(SEN-FET)**

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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** | 🗸 |

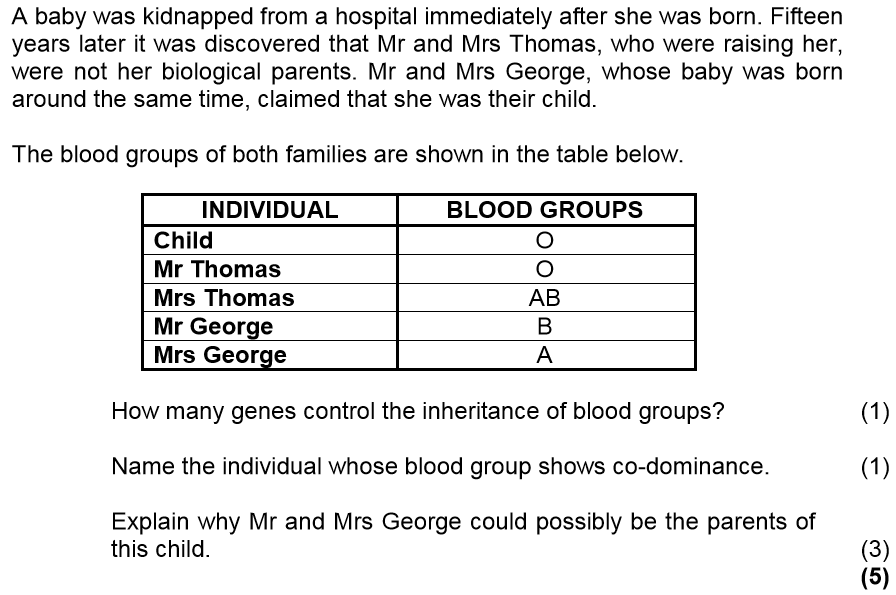
**WORKSHEET: INHERITANCE OF BLOOD GROUPS 16 MARKS**

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

|  |
| --- |
|  |

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:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | |  | | KEY: Black fish (B) x Grey fish (G) | | |  |  | | --- | --- | | **Type of dominance** |  | | **Description** |  | | **Crossing** |  | |
| |  | | --- | |  | | KEY: Red bird (A) x Blue bird (a) | | |  |  | | --- | --- | | **Type of dominance** |  | | **Description** |  | | **Crossing** |  | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | white  red  pink | | Key: Red flower (R)x White flower (W) | | |  |  | | --- | --- | | **Type of dominance** |  | | **Description** |  | | **Crossing** |  | |

**TOTAL 15**