**Exam Natural Science**

**III.** **Biology Section**

**Ex 1:** When crossing two different purebred parents differently on a pair of contrast traits then?

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| **Answer** |

**Ex 2:** When giving two chick peas to have red flowers together, F1 has the ratio of 3 red flowers: 1 white flower. What is the genotype of P?

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| **Answer** |

**Ex 3:** In peas, the golden seed is superior to green beans. Cross-pollinated seedling with purebred seeds F1. What is the ratio of F1 to F1?

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| **Answer** |

**Ex 4:** The same chromosome pair is the chromosome pair:

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| **Answer** |

**Ex 5**: In the nucleus, the chromosome is distributed in:

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| **Answer** |

**Ex 6:** In the division, the chromosome starts to shorten, the twisting takes place in:

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| **Answer** |

**Ex 7**: In a DNA molecule genes

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| **Answer** |

**Ex 8:** Today, in cultivating, it is possible to produce disease-free potatoes that play a key role and provide a very large, fast and cheap source that conventional methods can not meet. that is

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| **Answer** |

**Ex 9:** For 8 months from one of the potatoes have collected 2000 million seeds enough to grow for 40 hectares. This is the result of field application

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| **Answer** |

**Ex 10:** Phenomenon does not appear when inbreeding is:

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| **Answer** |

**Ex 11:**

a. Describe the process of self-replication of DNA.

b. Explain why two DNAs are produced by duplicating mechanisms like the parent DNA

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**Answers and scores**

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| **Ex** | **answer** | **scores** |
| 1 | F1 homosexuality on parental trait and F2 discriminative trait on 3 dominant scales: 1 dive. | 5 |
| 2 | P: Aa x Aa | 5 |
| 3 | 100% yellow gold | 5 |
| 4 | The same morphology, size and origin are derived from the father, one is derived from the mother. | 5 |
| 5 | In the nucleus. | 5 |
| 6 | first spawn | 5 |
| 7 | distribution along the length of the DNA molecule. | 5 |
| 8 | micropropagation | 5 |
| 9 | cell technology. | 5 |
| 10 | The descendants exhibit dominant characteristics over their parents. | 5 |

**Ex 11:**

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| --- | --- | --- |
|  | **Answer** | **Scores** |
| a | Describe the process of self-replication of DNA.DNA replication (replication) takes place through stages in the following order: |  |
|  | - A DNA molecule that twists, breaks apart the two strands of DNA by enzymes | 10 |
| - After being separated, the nuclite on a single loop in turn is bound to the free nucleotides in the intracellular medium according to the complementary principle (A-T, G-X) to create a new circuit. | 10 |
| - When the process of self-replication ends, two child DNA molecules are formed and then twisted, which are identical in structure to the parent DNA. | 10 |
| b. | Explain why two DNAs are created by duplicating mechanisms like the parent DNA |  |
|  | Baby DNA is generated by the mechanism of self-replication of the parent DNA because DNA replication follows the principles of stereotyping, complementation and sale. | 20 |

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