**Part I: Objective tests**

1. Among the two traits of smooth and green seeds; plain nuts and grains, which pair is the contrast trait pair.

2. To determine the purity of the breed, which hybrid?

3. The mother body has the AaBB genotype, when the faeces are reduced (if there is free-radical mutation of the genes), what kind of gametes?

4. Hybridization of P: AaBb x aabb, F1 will acquire some types of phenotypes? (A is superior to A, B is superior to b).

5. How does chromosome duplication occur at any point in the cell cycle?

6. Where is self-replicating chromosomes?

7. Carriers and transmitting genetic information to cell material are:

8. Give a single piece of DNA molecule - A-T-X-G- A- X-. Which circuit corresponds to the above circuit according to the additional principle?

9. How does duplication occur on several DNA strands?

10. Each twist cycle of high 34A0 DNA consists of 10 pairs of nuclite. What is the length of each nuclite?

**Part II: Self-talk**

 11. What are the common and variable mutations?

The end

**Answer**

|  |  |  |
| --- | --- | --- |
| **The sentence** | **Answer** | **Point** |
| **1** | Bean seeds and grains | **5** |
| **2** | Lai analysis | **5** |
| **3** | **2** | **5** |
| **4** | **4** | **5** |
| **5** | Intermediate | **5** |
| **6** | DNA multiplies itself | **5** |
| **7** | RNA information | **5** |
| **8** | -T-A-G-X-T-G- | **5** |
| **9** | **3** | **5** |
| **10** | **3.4 A0** | **5** |

**SESSION PART**

|  |  |  |
| --- | --- | --- |
| **Same**   - It is the phenotype change of the body.  - The impact of the environment. | | **20** |
| **Different** | | **30** |
| Usually variable | Mutation |  |
| Only phenotypic changes, no change in genetic material (chromosomes and DNA) | Transforming genetic material (chromosomes and DNA). This leads to a change in the phenotype of the body | **10** |
| Due to the direct impact of the environment | Due to the effects of external environment or metabolic disorders in body cells. | **5** |
| Not passed to the next generation | Genetics for the next generation. | **5** |
| Help the body adapt to changing habitat, not the material of the breeding because of non-genetic | Much of the damage to the organism itself is a source of genetic material for genetic selection | **10** |

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