**Матрица ответов на задания муниципального этапа   
Всероссийской олимпиады школьников по биологии.   
11 класс**

**Часть 1. [30 баллов]**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **1-10** | Б | Б | Г | А | Б | В | А | А | Б | Г |
| **11-20** | А | В | В | Г | Б | А | А | Б | Г | Г |
| **21-30** | Б | В | А | Б | Б | В | А | Г | В | В |

**Часть 2. [20 баллов]**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **№** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| А |  | + |  |  |  | + | + | + |  | + |
| Б | + | + | + | + | + | + |  |  | + |  |
| В | + |  |  |  |  | + |  | + |  |  |
| Г |  |  | + | + | + |  | + |  |  |  |
| Д | + | + | + | + | + | + | + | + | + | + |

**Часть 3.** **[21,5 балл]**

**Задание 1. [мах. 2,5 балла]**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Биолог** | **1** | **2** | **3** | **4** | **5** |
| **Открытие** | Г | В | А | Д | Б |

**Задание 2. [мах. 8 баллов]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Семейство** | **1** | **2** | **3** | **4** |
| **Растение** | 1, 6, 8, 10 | 3, 9, 11, 15 | 2, 7, 13, 16 | 4, 5, 12, 14 |

**Задание 3.** **[мах. 3 балла]**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Гидробионт** | **1** | **2** | **3** | **4** | **5** | **6** |
| **Экологическая ниша** | 4 | 3 | 2 | 5 | 2 | 1 |

**4.** **[мах. 3 балла]**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Фермент** | **А** | **Б** | **В** | **Г** | **Д** | **Е** |
| **Место синтеза** | 2 | 2 | 2 | 2 | 1 | 2 |

**5. [мах. 5 баллов]**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Признаки** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **Представители** | Б | А | А | Б | А | Б | А | Б | Б | А |