**Ответы на задания муниципального этапа**

**Всероссийской олимпиады школьников по биологии 2017 года**

**для 11 класса (max – 131 балл)**

**Часть 1. max 60 баллов**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **№ вопросов** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **1-10** | Б | В | В | Г | А | Б | Г | В | В | А |
| **11-20** | В | А | А | Г | В | Б | А | В | Г | А |
| **21-30** | Б | В | Б | В | В | А | Г | А | Б | Б |
| **31-40** | А | Г | В | А | А | Г | В | Г | Г | В |
| **41-50** | А | Б | Г | Б | В | В | Г | Б | Б | Б |
| **51-60** | Г | В | А | Г | Б | А | А | В | В | В |

**Часть 2. max 30 баллов**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| а | д | а | б | д | в | д | б | в | в | а | в | б | б | д |

**Часть 3. max 25 баллов**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | | **8** | **9** | **10** |
| **да** | + |  | **+** |  |  |  | **+** | |  |  | **+** |
| **нет** |  | **+** |  | + | **+** | **+** |  | | **+** | **+** |  |
|  | **11** | **12** | **13** | **14** | **15** | **16** | | **17** | **18** | **19** | **20** |
| **да** |  | **+** |  |  |  |  | |  |  | + |  |
| **нет** | **+** |  | **+** | + | + | + | | + | + |  | + |
|  | **21** | **22** | **23** | **24** | **25** |  | |  |  |  |  |
| **да** | + | + | + |  | + |  | |  |  |  |  |
| **нет** |  |  |  | + |  |  | |  |  |  |  |

**Часть 4. max 16 баллов**

**1. (3 балла)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Характеристики | 1 | 2 | 3 | 4 | 5 | 6 |
| Отделы | А | А | Б | А | А | Б |

**2.(4 балла)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Признаки | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Животные | Ж | З | А | Е | Б | Г | В | Д |

**3.(3 балла)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Признаки | 1 | 2 | 3 | 4 | 5 | 6 |
| Экосистемы | Б | Б | А | А | А | Б |

**4.(3 балла)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Углевод | 1 | 2 | 3 | 4 | 5 | 6 |
| Функция | Е | Б | А | В | Г | Д |

**5.(3 балла)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Особенности | 1 | 2 | 3 | 4 | 5 | 6 |
| Изгиб | Б | Б | А | Б | А | А |