Ответы на задания муниципального этапа   
 всероссийской олимпиады школьников по биологии.   
2016-17 уч. год. 11 класс

**Задание 1. [60 баллов]**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **1-10** | в | б | а | а | а | в | б | а | г | в |
| **11-20** | г | в | в | б | в | в | г | г | в | б |
| **21-30** | б | г | а | в | б | в | в | в | б | г |
| **31-40** | б | б | б | г | г | а | б | г | в | а |
| **41-50** | в | в | а | г | б | в | г | в | г | б |
| **51-60** | в | б | а | в | в | б | в | в | а | г |

**Задание 2. [30 баллов]**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **1-10** | в | б | б | в | а | в | б | г | б | а |
| **11-15** | б | а | г | а | г |  |  |  |  |  |

**Задание 3. [25 баллов]**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **№** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| прав. «ДА» | х |  |  | х |  | х | х |  | х |  | х |  | х |  |  |
| неправ «нет» |  | х | х |  | х |  |  | х |  | х |  | х |  | х | х |
| **№** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** | **25** |  |  |  |  |  |
| прав. «ДА» |  |  | х | х |  |  | х | х | х |  |  |  |  |  |  |
| неправ «нет» | х | х |  |  | х | х |  |  |  | х |  |  |  |  |  |

**Задание 4.** **[ 16 баллов]**

**1.[мах.3. 5 баллов]**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **паразит** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Промежуточный хозяин** | и | в | б | а | б | д | б |

**2.[2,5 балла]**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Биологический материал** | **1** | **2** | **3** | **4** | **5** |
| **Вещество** | г | д | б | а | в |

**3 .[3,5 балла]**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Отряд** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** |
| **Тип развития** | а | а | б | а | а | б | а | а | б | б | а | б | а | б |

**4.[max. 2.5 балла]**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Функции** | А | Б | В | Г | Д |
| **Органы пищеварительной системы** | 4 | 1 | 5 | 2 | 3 |

**5. [мах. 4 балла]**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Функции** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Органоиды клетки** | е | б | в | ж | з | д | г | а |