

## Zasady oceniania rozwiązań zadań otwartych

### Zadanie 9.

Schemat punktowania:

1 pkt – za podanie dokładnej wartości liczbowej.

0 pkt – za odpowiedź niespełniającą powyższych kryteriów lub brak odpowiedzi.

Poprawna odpowiedź: **120**

*Uwaga: Oceniana jest jedynie końcowa wartość liczbowo, a nie – sposób obliczenia.*

*Komentarz: Rozważany dgDNA jest jednoniciowy i zawiera pięć odcinków, komplementarnych do pięciu rodzajów miRNA. Rozwiązanie zadania sprowadza się zatem do odpowiedzi na pytanie, na ile sposobów można uporządkować zbiór pięcioelementowy:  $5! = 1 \times 2 \times 3 \times 4 \times 5 = 120$*

### Zadanie 34.

Schemat punktowania:

1 pkt – za podanie prawdopodobieństwa otrzymania okazu o kwiatach czerwonych i o podłużnych ziarnach pyłku z dokładnością do jednego procenta.

0 pkt – za odpowiedź niespełniającą powyższych kryteriów lub brak odpowiedzi.

Przykładowe odpowiedzi poprawne:

- 6 %
- 6,125 %
- 0,06
- 0,061

Przykładowe odpowiedzi niepoprawne:

- 0,06 %
- 0,061 %

*Uwaga: Oceniana jest jedynie końcowa wartość liczbowo, a nie – sposób obliczenia.*

*Komentarz: Ze względu na to, że w pokoleniu F2 pojawiły się wszystkie cztery klasy fenotypowe, ale w proporcji innej niż 9: 3: 3: 1, należy założyć model dziedziczenia z częściowym sprzężeniem dwóch genów. Rośliny o kwiatach czerwonych i o podłużnych ziarnach pyłku to podwójne homozygoty recesywne, dla których przyjmijmy zapis genotypu  $aabb$ , otrzymane w wyniku krzyżówki  $\frac{AB}{ab} \times \frac{AB}{ab}$ , a więc bez rekombinacji. Przyjmijmy, że prawdopodobieństwo zajścia rekombinacji to  $p$ , a prawdopodobieństwo zdarzenia przeciwnego (nie zajścia rekombinacji) to  $q = 1 - p$ .*

*Aby w pokoleniu F2 powstał genotyp  $aabb$ , u obydwu roślin macierzystych po pierwsze nie może dojść do rekombinacji z prawdopodobieństwem  $q$ , a następnie muszą się połączyć gamety o genotypach  $ab$ , a nie – o genotypach  $AB$ . Wiadomo też, że w pokoleniu F2 genotyp  $aabb$  miało 1338 roślin spośród 6950, a więc możemy zapisać następującą równość:*

$$\left(q \times \frac{1}{2}\right)^2 = \frac{1338}{6950}$$

$$q^2 \times \frac{1}{4} = \frac{1338}{6950}$$

$$q = \sqrt{\frac{4 \times 1338}{6950}} \approx 0,8775$$

$$p \approx 1 - 0,8775 = 0,1225$$

W przypadku krzyżówki rośliny z pokolenia F1 z rośliną o kwiatach czerwonych i o okrągłych ziarnach pyłku mamy do czynienia z genotypami  $\frac{AB}{ab} \times \frac{ab}{ab}$ . Interesuje nas prawdopodobieństwo otrzymania okazu o kwiatach czerwonych i o podłużnych ziarnach pyłku, a więc o genotypie  $aaBb$ , powstającym w przypadku połowy zrekombinowanych gamet:

$$p \times \frac{1}{2} \approx 0,1225 \times \frac{1}{2} = 0,06125 = 6,125\% \approx 6\%$$

#### Zadanie 58.

Schemat punktowania:

1 pkt – za podanie poprawnych nazw trzech parków narodowych.

0 pkt – za odpowiedź niespełniającą powyższych kryteriów lub brak odpowiedzi.

Poprawna odpowiedź:

2. Słowiński Park Narodowy

5. Biebrzański Park Narodowy

19. Tatrzański Park Narodowy

*Uwaga:*

Uznaje się odpowiedzi z błędami ortograficznymi, pod warunkiem, że taka nazwa pozwala na jednoznaczną identyfikację danego parku narodowego, np. „Sowiński Park Narodowy” zamiast „Słowiński Park Narodowy”. W szczególności uznaje się odpowiedzi z błędami dotyczącymi pisowni małą lub wielką literą.

**Prawidłowe odpowiedzi do zadań zamkniętych znajdują się na następnych stronach**

Imię i nazwisko



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Miejsce na odpowiedzi do zadań zamkniętych

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Miejsce na odpowiedzi do zadań zamkniętych c.d.



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|           | 3 | <input type="radio"/> (A) <input checked="" type="radio"/>   |           | 3 | <input checked="" type="radio"/> <input type="radio"/> (F)   | <b>53</b> | 1 | <input checked="" type="radio"/> <input type="radio"/> (B)   |
| <b>25</b> | 1 | <input checked="" type="radio"/> <input type="radio"/> (B)   | <b>40</b> |   | <input type="radio"/> (A) <input checked="" type="radio"/> <input type="radio"/> (C)                           |           | 2 | <input type="radio"/> (A) <input checked="" type="radio"/>   |
|           | 2 | <input type="radio"/> (A) <input checked="" type="radio"/>   |           |   |  |           | 3 | <input checked="" type="radio"/> <input type="radio"/> (B)   |
|           | 3 | <input checked="" type="radio"/> <input type="radio"/> (B)   | <b>41</b> | 1 | <input type="radio"/> (P) <input checked="" type="radio"/>   | <b>54</b> | 1 | <input type="radio"/> (P) <input checked="" type="radio"/>   |
| <b>26</b> | 1 | <input checked="" type="radio"/> <input type="radio"/> (B)   |           | 2 | <input checked="" type="radio"/> <input type="radio"/> (F)   |           | 2 | <input type="radio"/> (P) <input checked="" type="radio"/>   |
|           | 2 | <input checked="" type="radio"/> <input type="radio"/> (B)   | <b>42</b> | 1 | <input type="radio"/> (P) <input checked="" type="radio"/>   |           | 3 | <input checked="" type="radio"/> <input type="radio"/> (F)   |
|           | 3 | <input checked="" type="radio"/> <input type="radio"/> (B)   |           | 2 | <input checked="" type="radio"/> <input type="radio"/> (F)   | <b>55</b> |   | <input type="radio"/> (A) <input type="radio"/> (1)  |
| <b>27</b> | 1 | <input checked="" type="radio"/> <input type="radio"/> (F)   |           | 3 | <input checked="" type="radio"/> <input type="radio"/> (F)   |           |   | <input checked="" type="radio"/> <input type="radio"/> (3)   |
|           | 2 | <input type="radio"/> (P) <input checked="" type="radio"/>   | <b>43</b> |   | <input checked="" type="radio"/> <input type="radio"/> (1)   | <b>56</b> | 1 | <input checked="" type="radio"/> <input type="radio"/> (N)   |
|           | 3 | <input type="radio"/> (P) <input checked="" type="radio"/>   |           |   | <input type="radio"/> (B) <input type="radio"/> (2)  |           | 2 | <input checked="" type="radio"/> <input type="radio"/> (N)   |
| <b>28</b> | 1 | <input checked="" type="radio"/> <input type="radio"/> (B)   |           |   | <input type="radio"/> (B) <input type="radio"/> (2)  |           | 3 | <input checked="" type="radio"/> <input type="radio"/> (N)   |
|           | 2 | <input checked="" type="radio"/> <input type="radio"/> (B)   | <b>44</b> | 1 | <input type="radio"/> (T) <input checked="" type="radio"/>   | <b>57</b> | 1 | <input type="radio"/> (A) <input checked="" type="radio"/>   |
| <b>29</b> |   | <input type="radio"/> (A) <input checked="" type="radio"/> <input type="radio"/> (C) <input type="radio"/> (D)                           |           | 2 | <input checked="" type="radio"/> <input type="radio"/> (N)   |           | 2 | <input checked="" type="radio"/> <input type="radio"/> (B)   |
|           |   |  |           | 3 | <input checked="" type="radio"/> <input type="radio"/> (N)   |           | 3 | <input type="radio"/> (A) <input checked="" type="radio"/>   |
| <b>30</b> | 1 | <input type="radio"/> (A) <input checked="" type="radio"/>   | <b>45</b> |   | <input checked="" type="radio"/> <input type="radio"/>   |           | 4 | <input type="radio"/> (A) <input checked="" type="radio"/>   |
|           | 2 | <input type="radio"/> (A) <input checked="" type="radio"/>   |           |   | <input type="radio"/> (B) <input type="radio"/> (2)  |           | 5 | <input checked="" type="radio"/> <input type="radio"/> (B)   |
| <b>31</b> | 1 | <input checked="" type="radio"/> <input type="radio"/> (F)   |           |   | <input type="radio"/> (B) <input type="radio"/> (3)  | <b>59</b> | 1 | <input type="radio"/> (P) <input checked="" type="radio"/>   |
|           | 2 | <input type="radio"/> (P) <input checked="" type="radio"/>   | <b>46</b> | 1 | <input checked="" type="radio"/> <input type="radio"/> (B)   |           | 2 | <input type="radio"/> (P) <input checked="" type="radio"/>   |
|           | 3 | <input checked="" type="radio"/> <input type="radio"/> (F)   |           | 2 | <input checked="" type="radio"/> <input type="radio"/> (B)   |           | 3 | <input checked="" type="radio"/> <input type="radio"/> (F)   |
| <b>32</b> |   | <input type="radio"/> (A) <input checked="" type="radio"/> <input type="radio"/> (C) <input type="radio"/> (D)                           |           | 3 | <input checked="" type="radio"/> <input type="radio"/> (B)   | <b>60</b> | 1 | <input checked="" type="radio"/> <input type="radio"/> (B)   |
| <b>33</b> |   | <input type="radio"/> (A) <input checked="" type="radio"/> <input type="radio"/> (C) <input type="radio"/> (D) <input type="radio"/> (E) | <b>47</b> |   | <input type="radio"/> (A) <input checked="" type="radio"/> <input type="radio"/> (C) <input type="radio"/> (D) |           | 2 | <input type="radio"/> (A) <input checked="" type="radio"/>   |
| <b>35</b> |   | <input type="radio"/> (A) <input checked="" type="radio"/> <input type="radio"/> (C) <input type="radio"/> (D) <input type="radio"/> (E) | <b>48</b> |   | <input type="radio"/> (A) <input type="radio"/> (B) <input checked="" type="radio"/> <input type="radio"/> (D) |           | 3 | <input checked="" type="radio"/> <input type="radio"/> (B)   |