

Mendelian genetics section 1: **Predicting outcomes**

12 marks

1. What is the probability that an organism with genotype **AaMmTT** produces a gamete **amT** ? Demonstrate showing gametes, probabilities and/or Punnet square **1 mark**

$$P(a) = 0.5$$

$$P(m) = 0.5 \quad P(T) = 1$$

$$P(amT) = P(a) \times P(m) \times P(T) = 0.25 = \frac{1}{4}$$

2. What is the probability that a genotype **aammTt** is obtained from
3.

- a. crossing two individuals with genotypes **AaMmTT** and **aaMmTT** ? **1 mark**

P = 0, none of the parentals can produce a gamete with allele t

- b. crossing two parental individuals (A) and (B) with genotypes **aammTt** and **AaMmtt** respectively?

1. List the gametes produced by (A) and (B), **1 mark**
2. indicate the Probability associated to each gamete **1 mark**
3. Make a Punnet square to visualize the results **1 mark**
4. Indicate the probability value **1 mark**

For individual (A), the probability of producing gametes with alleles a, m and T is $1 \times 1 \times 0.5 = 0.5$. This individual carries the only dominant allele we want in the offspring.

Individual (B) is homozygote recessive for t and heterozygote for the other alleles. Therefore the gamete of interest in individual (B) for the wanted result in the F1 must be be **amt** , with $P = 0.5 \times 0.5 \times 1 = 0.25$.

The probability of the F1 with the desired genotype is the product of the P of the gametes needed to originate it.

$$\text{In this case } P(aammTt) = P(\text{gamete 1}) \times P(\text{gamete 2}) = 0.5 \times 0.25 = 0.125$$

Section 2 Mendelian Genetics Study Guide Answers

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book aims to motivate A Level students Questions are presented in two styles Quick Check and Food for Thought to give opportunities to practise both recall and analytical skills It includes colour illustrations and graduated questions to practise recall and analytical skills **Evolutionary Genetics** Glenn-Peter Sætre, Mark Ravinet, 2019-05-13 With recent technological advances vast quantities of genetic and genomic data are being generated at an ever increasing pace The explosion in access to data has transformed the field of evolutionary genetics A thorough understanding of evolutionary principles is essential for making sense of this but new skill sets are also needed to handle and analyze big data This contemporary textbook covers all the major components of modern evolutionary genetics carefully explaining fundamental processes such as mutation natural selection genetic drift and speciation It also draws on a rich literature of exciting and inspiring examples to demonstrate the diversity of evolutionary research including an emphasis on how evolution and selection has shaped our own species Practical experience is essential for developing an understanding of how to use genetic and genomic data to analyze and interpret results in meaningful ways In addition to the main text a series of online tutorials using the R language serves as an introduction to programming statistics and analysis Indeed the R environment stands out as an ideal all purpose source platform to handle and analyze such data The book and its online materials take full advantage of the authors own experience in working in a post genomic revolution world and introduces readers to the plethora of molecular and analytical methods that have only recently become available Evolutionary Genetics is an advanced but accessible textbook aimed principally at students of various levels from undergraduate to postgraduate but also for researchers looking for an updated introduction to modern evolutionary biology and genetics **Resources in Education**, 1987 Serves as an index to Eric reports microform

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