

# Genetics Study Guide

6 pages + 6-page Answer KEY

## GENETICS STUDY GUIDE

② The standard unit of accounting is known as \_\_\_\_\_  
③ The two major financial statements are \_\_\_\_\_  
④ Assets and expenses that reduce working capital are \_\_\_\_\_  
a) \_\_\_\_\_  
b) \_\_\_\_\_  
c) \_\_\_\_\_  
⑤ Assets and expenses that increase working capital are \_\_\_\_\_  
a) \_\_\_\_\_  
b) \_\_\_\_\_  
c) \_\_\_\_\_  
⑥ When you receive cash in a bank account \_\_\_\_\_  
⑦ When you spend cash in a bank account \_\_\_\_\_  
⑧ When you transfer cash from one bank account to another \_\_\_\_\_



# Biology

11. Which of the following is a benefit of the three-tier model for a data warehouse?  
a. It allows data to be loaded directly into the data warehouse.  
b. It allows data to be loaded directly into the data mart.  
c. It allows data to be loaded directly into the operational system.  
d. It allows data to be loaded directly into the operational system and the data mart.

12. Which of the following are valid responses using abbreviations or acronyms?  
a. Y/N  
b. T/F  
c. A/B  
d. C/D

13. Which of the following features does not change the experience of a user?  
a. A  
b. B  
c. C  
d. D

14. Which one of the following is a valid response?

For the following sentence, refer to the diagram below.



3.1 The diagram above is known as a \_\_\_\_\_.

3.2 What does a circle represent in the diagram? \_\_\_\_\_

3.3 An arrow represents an object moving \_\_\_\_\_.

3.4 A white circle represents an object moving \_\_\_\_\_.

3.5 An arrow pointing toward the center of the circle represents an object moving \_\_\_\_\_.

3.6 A curved line represents an object moving \_\_\_\_\_.

3.7 A straight line represents an object moving \_\_\_\_\_.

3.8 A dashed line represents an object moving \_\_\_\_\_.

3.9 A wavy line represents an object moving \_\_\_\_\_.

3.10 A dotted line represents an object moving \_\_\_\_\_.

- 9. How do you think the government can best prevent child labour?
- 10. Describe a government programme different from a school programme which helps children in conflict?
- 11. Discuss the different types of government.
- 12. Why are government programmes for the disabled important and why do you think the government should encourage the growth of these programmes?
- 13. How does the government help the poor and the disabled? Give examples.

A more general model of the same data using a mixture of two different distributions with different mean lengths and different covariance elements was fit by using maximum likelihood estimation. The results were as follows and are presented in Table 1.

9. These three men served during the American Revolution: \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

ANS

# ANSWER KEY INCLUDED

# Active Guide Fundamentals Of Genetics Answer Key

**Tobias Bleicker**

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## **Study Guide** Robert S. Feldman, 2002-06      **Nootropic Basics**

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## **Genetics** Daniel L. Hartl, Elizabeth W. Jones, 1998      **Magill's Medical Guide** Anne Chang, 2005

Thrombolytic therapy TPA Thrombosis thrombus Thumb sucking Thyroid disorders Thyroid gland Thyroidectomy Tics Toilet

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*Resources in Education*, 1994

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for the nitration 4 01 ml of nitric acid 4 00 ml of sulfuric acid and 4 56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4 56 ml of bromobenzene was used the amount of product predicted to be recovered was 8 7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction eas particularly nitration of methyl benzoate go give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part

of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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then actual is your actual findings yield actual theoretical x 100 what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 °

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1 bromo 4 nitrobenzene

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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0 6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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nitration of bromobenzene the purpose of this lab was to - Jul 30 2023

the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion no2 which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4 0ml of nitric acid and 4 0ml of sulfuric acid and will then react with 4 5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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experimental spectra reaction a fluorobenzene stock fluorobenzene 1 h 1 h 19 f 19 f 13 c nmr fid for reference only sample 1 h 1 h 19 f 19 f 13 c nmr eas nitration of fluorobenzene crude product not available for submission for credit

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