

# Study Guide

## Answer Key

### SECTION 1. THE LINNAEAN SYSTEM OF CLASSIFICATION

- organisms or species
- physical similarities
- taxa
- organisms or species
- binomial nomenclature
- a scientific name or two-part Latin name
- In a hierarchy, each level is nested, or included, in the level above it.
- From kingdom to species, the taxa become more and more specific, broad to specific. Seven taxa: a. kingdom; b. phylum; c. class; d. order; e. family; f. genus; g. species
- The technology at the time did not allow Linnaeus to examine organisms at the molecular or genetic level.
- Unrelated species can evolve similar traits through convergent evolution.
- These types of similarities are more likely the result of species sharing a common ancestor than are physical similarities.
- naming, classifying
- Latin
- genus, species

### SECTION 2. CLASSIFICATION BASED ON EVOLUTIONARY RELATIONSHIPS

- the evolutionary history for a group of species
- in a branching-tree diagram, such as a cladogram
- to place species on a branching-tree diagram in the order in which they descended from a common ancestor
- taxon being classified
- clade
- node
- derived characters
- a group of organisms that shares a common ancestor
- Scientists must determine which derived characters are shared by which groups of organisms; the more derived characters a

group of organisms has, the later it descended from the common ancestor.

- A node is a place where a branch splits. It represents the most common ancestor shared by a clade.
- DNA sequences/genes, amino acid sequences/proteins, hormones, etc.
- As more research is done and the evolutionary histories of different species become better understood, evolutionary trees are rearranged to reflect the most current scientific understanding.
- The species are very closely related; they share a relatively recent common ancestor.
- A phylogeny shows the origins for a group, or "class," of species.
- Cladistics is classification based on evolutionary relationships and a cladogram shows these relationships in a branching-tree diagram.
- derived

### SECTION 4. DOMAINS AND KINGDOMS

- Since it reflects the most current understanding of how living things are related, new discoveries can change the way living things are classified.
- Three hundred years ago, only two kingdoms were recognized. Now, a six-kingdom system is most widely accepted.
- His research revealed two genetically different groups of prokaryotes, which justified splitting kingdom Monera into two kingdoms. The genetic and cellular differences were so great, that these two kingdoms were eventually placed into different domains in the current three-domain system.

#### Timeline:

1735: Linnaeus introduced his two-kingdom system which included Plantae and Animalia; 1866: Kingdom Protista introduced by Haeckel; 1938: Kingdom Monera introduced by Copeland; 1959:

# Answer Key For Study Guide Professional Baking

**Lauren Gardner**

## **Answer Key For Study Guide Professional Baking:**

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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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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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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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chem 2261 lab 5 nitration of bromobenzene introduction an electrophilic aromatic substitution reaction is an important process that allows for intermediate chemical structures to be used as precursors to pharmaceuticals and other industrially produced chemicals by adding different functional groups into an aromatic ring

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lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with either a mixture of sulfuric acid or nitric acid creates what is known as a nitro group