

Class - XI  
Time - 3 Hours

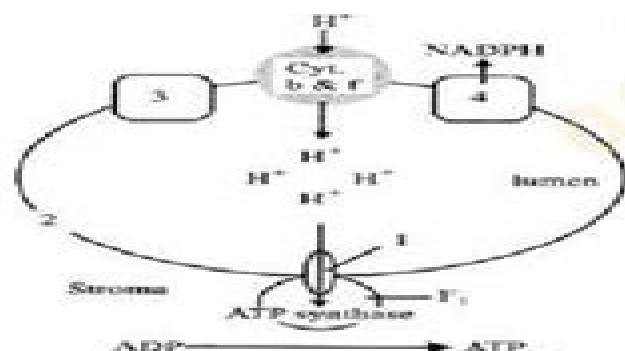
Subject - Biology  
Maximum Marks - 70

**General Instructions:**

- (i) All questions are compulsory.
- (ii) The question paper has five sections and 33 questions. All questions are compulsory.
- (iii) Section-A has 16 questions of 1 mark each; Section-B has 5 questions of 2 marks each; Section-C has 7 questions of 3 marks each; Section-D has 2 case-based questions of 4 marks each; and Section-E has 3 questions of 5 marks each.
- (iv) There is no overall choice. However, internal choices have been provided in some questions. A student has to attempt only one of the alternatives in such questions.
- (v) Wherever necessary, neat and properly labeled diagrams should be drawn.

**SECTION-A**

1. The common characteristics between tomato and potato will be maximum at the level of their  
a. Genus                                      b. Family                                      c. Order                                      d. Division
2. Which one of the following conditions are favourable for formation of carbonamino haemoglobin?  
a. low  $p\text{CO}_2$                                       b. high  $p\text{O}_2$                                       c. low  $\text{H}^+$                                       d. low  $p\text{O}_2$
3. The diagram below shows ATP synthesis through chemiosmosis. Which option shows the correct labelling of 1, 2, 3 and 4 in the diagram?



- a. 1 -  $\text{F}_1$ , 2 - Thylakoid membrane, 3 - Photosystem-I, 4 - Photosystem-II
- b. 1 -  $\text{F}_0$ , 2 - Thylakoid membrane, 3 - Photosystem-I, 4 - Photosystem-II
- c. 1 -  $\text{F}_1$ , 2 - Thylakoid membrane, 3 - Photosystem-II, 4 - Photosystem-I
- d. 1 -  $\text{F}_0$ , 2 - Thylakoid membrane, 3 - Photosystem-II, 4 - Photosystem-I

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**Daniel F McAuley**



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**Mockingbird** ,2005      *Proceedings of the International Conference on Education Research* Reza Hosseini,      **Graduate**

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*Education* ,1973      *Bibliography of Research Studies in Education* United States. Office of Education. Library,1929

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## **Table of Contents Grade 11 Biology Question Papers From Study Master**

1. Understanding the eBook Grade 11 Biology Question Papers From Study Master
  - The Rise of Digital Reading Grade 11 Biology Question Papers From Study Master
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Biology Question Papers From Study Master
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Grade 11 Biology Question Papers From Study Master
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Biology Question Papers From Study Master

- Personalized Recommendations
  - Grade 11 Biology Question Papers From Study Master User Reviews and Ratings
  - Grade 11 Biology Question Papers From Study Master and Bestseller Lists
5. Accessing Grade 11 Biology Question Papers From Study Master Free and Paid eBooks
    - Grade 11 Biology Question Papers From Study Master Public Domain eBooks
    - Grade 11 Biology Question Papers From Study Master eBook Subscription Services
    - Grade 11 Biology Question Papers From Study Master Budget-Friendly Options
  6. Navigating Grade 11 Biology Question Papers From Study Master eBook Formats
    - ePub, PDF, MOBI, and More
    - Grade 11 Biology Question Papers From Study Master Compatibility with Devices
    - Grade 11 Biology Question Papers From Study Master Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Grade 11 Biology Question Papers From Study Master
    - Highlighting and Note-Taking Grade 11 Biology Question Papers From Study Master
    - Interactive Elements Grade 11 Biology Question Papers From Study Master
  8. Staying Engaged with Grade 11 Biology Question Papers From Study Master
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Grade 11 Biology Question Papers From Study Master
  9. Balancing eBooks and Physical Books Grade 11 Biology Question Papers From Study Master
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Grade 11 Biology Question Papers From Study Master
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Grade 11 Biology Question Papers From Study Master
    - Setting Reading Goals Grade 11 Biology Question Papers From Study Master
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Grade 11 Biology Question Papers From Study Master

- Fact-Checking eBook Content of Grade 11 Biology Question Papers From Study Master
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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web here are some common signs of expressive language disorder in kids starting to talk later than most kids frequently saying um and huh having a limited vocabulary compared to kids the same age using short phrases or sentences not talking much but understanding what s said having trouble finding the right words

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this video accompanies the chm 252 lab nitration of bromobenzene in this video studens will get an introduction to the lab as well as the set up for conducting the reaction students should

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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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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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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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nitration of bromobenzene lab report improved essays 731 words 3 pages open document essay sample check writing quality show more this experiment was performed in order to demonstrate the principles of nitration through electrophilic aromatic substitution it also examined the effects of bromine on an aromatic ring ortho para vs meso directing

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then actual is your actual findings yield actual theoretical  $\times 100$  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 o

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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 no<sub>2</sub><sup>+</sup> 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 4.0 ml of nitric acid and 4.0 ml of sulfuric acid and will then react with 4.5 ml 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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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 wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group

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