

## SET 6

HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION



### PRACTICE PAPER ENGLISH LANGUAGE PAPER 1

#### PART A

#### Reading Passages

1½ hours  
(for both Parts A and B)

#### GENERAL INSTRUCTIONS

- (1) There are two parts (A and B) in this paper. All candidates should attempt Part A. In Part B, you should attempt either Part B1 (easier section) OR Part B2 (more difficult section). Candidates attempting Parts A and B2 will be able to attain the full range of levels, while Level 4 will be the highest level attainable for candidates attempting Parts A and B1.
- (2) After the announcement of the start of the examination, you should first write your Candidate Number in the space provided on the appropriate pages of the Part A Question-Answer Book and the Part B Question-Answer Book which you are going to attempt.
- (3) Write your answers in the spaces provided in the Question-Answer Books. Answers written in the margins will not be marked.
- (4) For multiple-choice questions, you are advised to blacken the appropriate circle with a pencil so that wrong marks can be completely erased with a clean rubber. Mark only ONE answer to each question. Two or more answers will score NO MARKS.
- (5) Supplementary answer sheets will be supplied on request. Write your Candidate Number and question number on each sheet.
- (6) No extra time will be given to candidates for filling in the question number boxes after the 'Time is up' announcement.
- (7) The two Question-Answer Books you have attempted (one for Part A and one for Part B) will be collected together at the end of the examination.
- (8) The unused Question-Answer Book for Part B will be collected separately at the end of the examination. This will not be marked. Do not write any answers in it.

#### INSTRUCTIONS FOR PART A

Attempt ALL questions in Part A. Each question carries ONE mark unless otherwise stated.

Not to be taken away before the  
end of the examination session

# Le Cep Set 6 Paper 1

**L Manion**



## Le Cep Set 6 Paper 1:

Combinatorial and Algorithmic Aspects of Networking Alejandro López-Ortiz, 2005-07-14 This book constitutes the refereed proceedings of the first workshop on Combinatorial and Algorithmic Aspects of Networking held in Banff Alberta Canada in August 2004 The 12 revised full papers together with two invited papers presented were carefully reviewed and selected for inclusion in the book The topics covered range from the web graph to game theory to string matching all in the context of large scale networks This volume contains also 5 survey articles to round out the presentation and give a comprehensive introduction to the topic

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Sessional Papers ,1904 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as vol 26 no 7 supplement

**Subject Guide to Books in Print** ,1993 Proceedings ,1996 **The Publisher** ,1911

**The Publishers' Circular and Booksellers' Record** ,1929 "A" Standard Dictionary of the English Language Upon Original Plans Isaac Kaufman Funk, 1893

**Neutrosophic Sets and Systems, vol. 52/2022** Florentin Smarandache, Mohamed Abdel-Basset, Maikel Leyva Vazquez, Said Broumi, 2022-11-01 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel's dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well Neutrosophic Set and Neutrosophic Logic are generalizations of the fuzzy set and respectively fuzzy logic especially of intuitionistic fuzzy set and respectively intuitionistic fuzzy logic

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*The Engineer* ,1918 *The Publishers' Trade List Annual* ,1994 **The Illustrated London News** ,1877 **Farmer's Weekly** ,1918 **Recent Geographical Literature, Maps and Photographs** Royal Geographical Society (Great Britain), 1923

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## **Table of Contents Le Cep Set 6 Paper 1**

1. Understanding the eBook Le Cep Set 6 Paper 1
  - The Rise of Digital Reading Le Cep Set 6 Paper 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Le Cep Set 6 Paper 1
  - 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 Le Cep Set 6 Paper 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Le Cep Set 6 Paper 1
  - Personalized Recommendations
  - Le Cep Set 6 Paper 1 User Reviews and Ratings
  - Le Cep Set 6 Paper 1 and Bestseller Lists
5. Accessing Le Cep Set 6 Paper 1 Free and Paid eBooks
  - Le Cep Set 6 Paper 1 Public Domain eBooks

- Le Cep Set 6 Paper 1 eBook Subscription Services
- Le Cep Set 6 Paper 1 Budget-Friendly Options
- 6. Navigating Le Cep Set 6 Paper 1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Le Cep Set 6 Paper 1 Compatibility with Devices
  - Le Cep Set 6 Paper 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Le Cep Set 6 Paper 1
  - Highlighting and Note-Taking Le Cep Set 6 Paper 1
  - Interactive Elements Le Cep Set 6 Paper 1
- 8. Staying Engaged with Le Cep Set 6 Paper 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Le Cep Set 6 Paper 1
- 9. Balancing eBooks and Physical Books Le Cep Set 6 Paper 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Le Cep Set 6 Paper 1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Le Cep Set 6 Paper 1
  - Setting Reading Goals Le Cep Set 6 Paper 1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Le Cep Set 6 Paper 1
  - Fact-Checking eBook Content of Le Cep Set 6 Paper 1
  - 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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*table of contents rebels without borders* - Feb 28 2023

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web view answer ques the significance of meiosis lies in a reduction of the diploid number of chromosomes to haploid b maintaining constancy in the number of diploid chromosomes during sexual reproduction c production of genetic variability in the population of a species d all the above view answer

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web by the end of this section you will be able to do the following describe the behavior of chromosomes during meiosis and the differences between the first and second meiotic divisions describe the cellular events that take place during meiosis explain the differences between meiosis and mitosis

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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 °C

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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  $\text{HNO}_3$  and  $\text{H}_2\text{SO}_4$  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

experiment 11 electrophilic aromatic substitution nitration - Jan 12 2022

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 closer for the programme to accommodate their electrons demonstration of creating the p arenium cation by 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  $\text{NO}_2^+$  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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lab writeup the purpose of this lab was to observe where substituents are added on benzene ring way of electrophilic aromatic substitution the electrophilic

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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

lab report nitration of bromomobenzene ipl org - Feb 22 2023

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