

খ সোট

জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা,
পশ্চিম (সুন্দরবন + বঙ্গনীরত্ব অধীক্ষণ)

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সমষ্টি—৫ ঘণ্টা

পূর্ণাঙ্গ—৭০+৩০=১০০

সুন্দরবন অঞ্চল

মান—৭০

প্রোব্লেম—জন পাশের সাথে যাওয়ের পূর্ণাঙ্গ জাপান। প্রদত্ত উভীপ্রকারভাবে অনোয়েগসহকারে পড় এবং সংক্ষিপ্ত যাওয়ের উভের সাথে।
ক. খ ও প বিভাগ থেকে দুইটি করে এবং য বিভাগ থেকে একটিসহ যোট সার্কুল যাওয়ের উভের নিকে করে।

ক বিভাগ—পাঠিগণিত

	সম্পর্ক	
১।	৭, ১৬, ২০, ৩৪, ৪০, (ক) ২০ এবং ৩৪কে দুইটি বর্ণের সমষ্টিগুলো একাশ কর। (খ) ভালিকার ২০তম সংখ্যাটি নির্ণয় কর। (গ) ভালিকার ১ম ৬০টি সংখ্যার সমষ্টি নির্ণয় কর।	২ ৮ ৮
২।	এক বারি বার্ষিক শুরুকাৰা ১০ টাকা মুনাফায় ৬০০০ টাকা ০ বছৰের জন্য ব্যাঙেক অথা ব্যাঙলেন। (ক) ১ম বছৰাতে মুনাফা-আসল নির্ণয় কর। (খ) সরল মুনাফা ও চকচকুকি মুনাফার পার্থক্য নির্ণয় কর। (গ) একই ধৰ সরল মুনাফার উক্ত আসল কর বছৰে মুনাফা-আসলে দেৱৰণ করে।	২ ৮ ৮
৩।	একটি ঘৰের দৈর্ঘ্য যাওয়ের ৪ অংশ। এতি ব্যৱিধিৰ ১২-১০ টাকা সমে ঘৰটিৰ মোৰে কাপেটি নিয়ে জাকতে যোট ১২০০ টাকা বৰাব হয়। (ক) ঘৰটিৰ কেজৱল নির্ণয় কর। (খ) ঘৰটিৰ দৈর্ঘ্য ও অছৰ নির্ণয় কর। (গ) ঘৰটিৰ উচ্চতা ০ মিটাৰ এবং এৰ দেৱালাঙ্গো ২০ সে. মি. পুৰু হলে তাৰ দেৱালাঙ্গোৰ আয়তন নির্ণয় কর।	২ ৮ ৮

খ বিভাগ—বীজগণিত

৪।	$x^2 - \sqrt{5} x + 1 = 0$ (ক) $x + \frac{1}{x}$ এৰ মান নির্ণয় কর। (খ) সমাধ কৰ যে, $x^3 - \frac{1}{x^3} = 4$ (গ) $x^6 - \frac{1}{x^6}$ এৰ মান নির্ণয় কর।	২ ৮ ৮
৫।	$A = x^2 - 5x + 6, B = x^2 - 9, C = x^2 + 4x + 3$ (ক) $\frac{C}{x^2 + x}$ কে সাধাৰণ আকাৰে একাশ কৰ। (খ) সরল কৰ: $\frac{1}{A} + \frac{1}{B}$. (গ) $\frac{1}{A} \cdot \frac{1}{B} \cdot \frac{1}{C}$ কে সাধাৰণ হৰিণিত আকাৰে একাশ কৰ।	২ ৮ ৮
৬।	কোন ভগ্নাংশেৰ সাৰেৰ সাথে ৩ মোৰ কৰলো এৰ মান। অৱৰ কৰেৰ সাথে ২ মোৰ কৰলো এৰ মান $\frac{1}{2}$ হয়। (ক) ভগ্নাংশটিকে $\frac{x}{y}$ ধৰে সমীকৰণ জোটি গঠন কৰ। (খ) ভগ্নাংশটি নির্ণয় কৰ। (গ) লোকটিকেৰ সাহচেয়ে সমীকৰণ জোটিৰ সমাধান কৰ।	২ ৮ ৮

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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

lab 334 nitration of aromatic compounds preparation of studocu - Dec 23 2022

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

experiment synthesis of 1 bromo 4 nitrobenzenee pbworks - May 28 2023

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 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 °

experiment 3 electrophilic aromatic substitution reactions studocu - Jan 24 2023

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

nitration of bromobenzene 6 nitration of bromobenzene 10 19 - Oct 01 2023

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

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 close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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lab report 15 nitration of bromobenzene brynn abbott amp katie muerer bea0006 uah ch 336 02 september 21 2022 abstract in this experiment the electrophilic aromatic substitution mechanism was used to obtain 4 nitrobromobenzene and 2 nitrobromobenzene recrystallization was used to purify 4 nitrobromobenzene

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

experiment 11 electrophilic aromatic substitution nitration - Feb 10 2022

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

nitration of bromobenzene chem 154 gwu studocu - Mar 26 2023

lab writeup the purpose of this lab was to observe where substituents are added on benzene ring way of electrophilic aromatic substitution the electrophilic

5 nitration lab docx lab 5 nitration of bromobenzene - Aug 19 2022

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 bromobenzene 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 either a mixture of sulfuric acid or nitric acid creates what is known as a nitro group