

Master Math for JEE Main & JEE Advanced

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For JEE Main 2020 April



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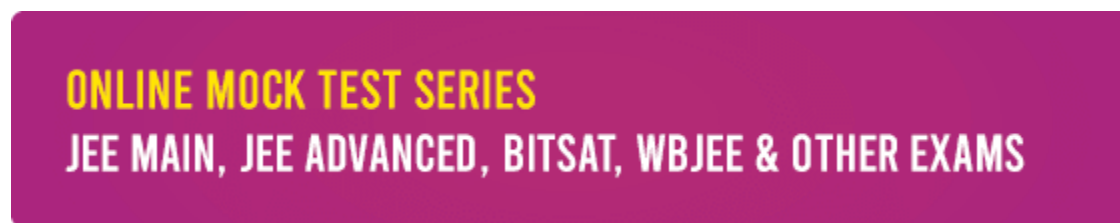
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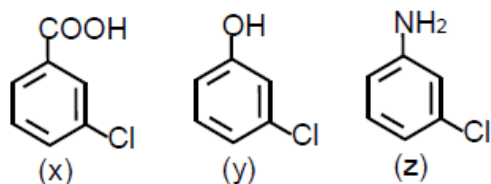
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JEE Mains 2020 Jan Chapter wise Question Bank

Aromatic Compounds

Q1



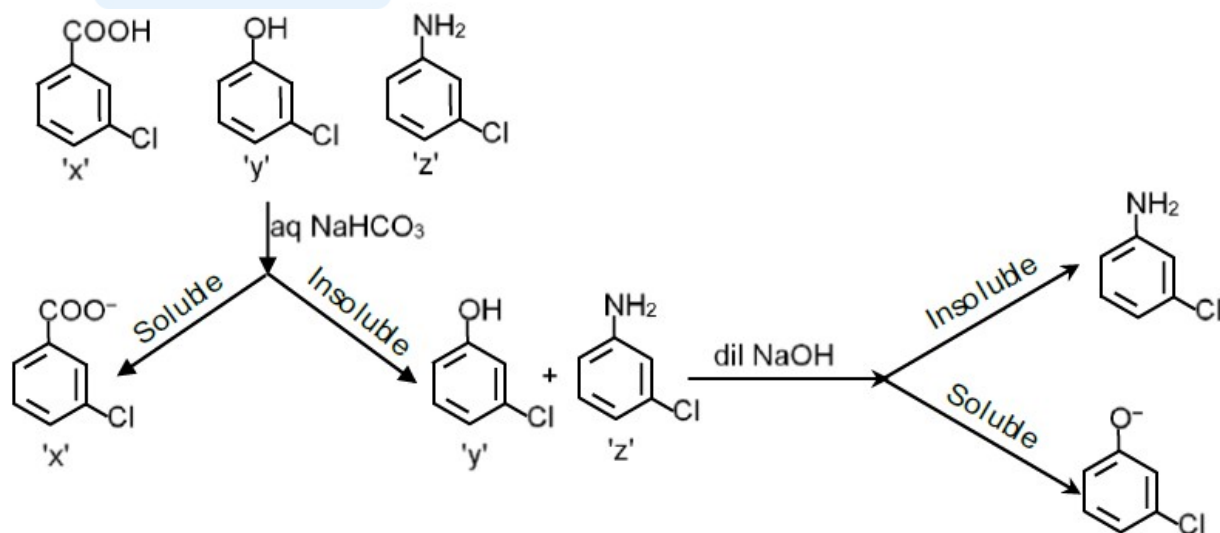
Mixture of above three organic compound was subjected to aq NaHCO_3 and followed by dil NaOH . compounds which will be soluble in given solvent will be :

- (1) x in aq NaHCO_3 and y in dil. NaOH .
- (2) x in aq NaHCO_3 and z in dil. NaOH .
- (3) y in aq NaHCO_3 and x in dil. NaOH .
- (4) y is aq NaHCO_3 and z in dil. NaOH .

7th Jan Morning

Sol

(1)

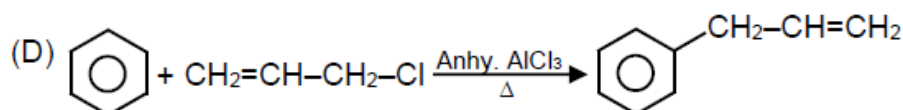
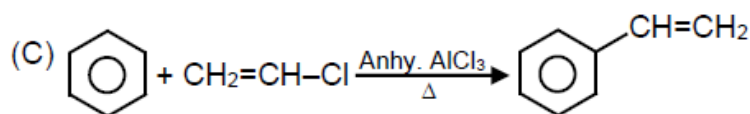
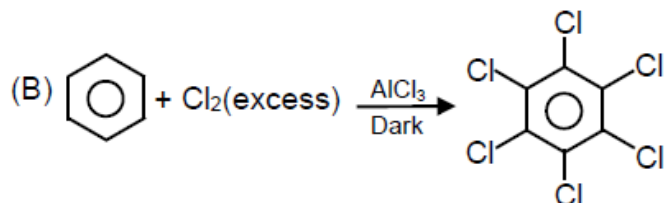
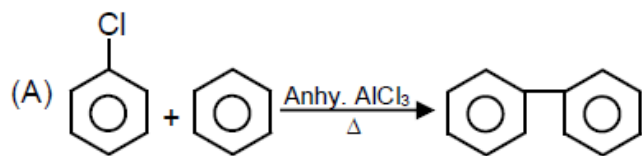


Q2

Aromatic Compounds

Which of the following reactions are possible ?

निम्न में से कौनसी अभिक्रिया सम्भव है ?



(1) A, B, C

(2) B, D

(3) A, C, D

(4) A, C

7th Jan Evening

Sol

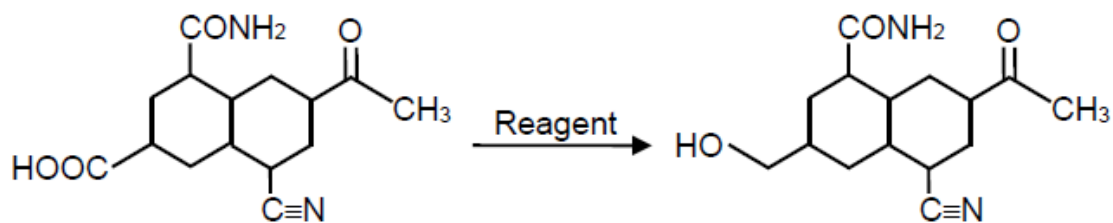
(2)

Vinyl halides and aryl halides do not give Friedel craft's reaction.

Q3

Reagent used for the given conversion is:

दिये गये रूपान्तरण के लिए प्रयुक्त अभिकर्मक है—



(1) H₂, Pd

(2) B₂H₆

(3) NaBH₄

(4) LiAlH₄

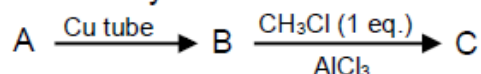
8th Jan Morning

Sol

(2)

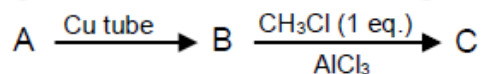
B₂H₆ is very selective and usually used to reduce acid to alcohol.

How many atoms lie in the same plane in the major product (C) ?



(Where A is the alkyne of lowest molecular mass)

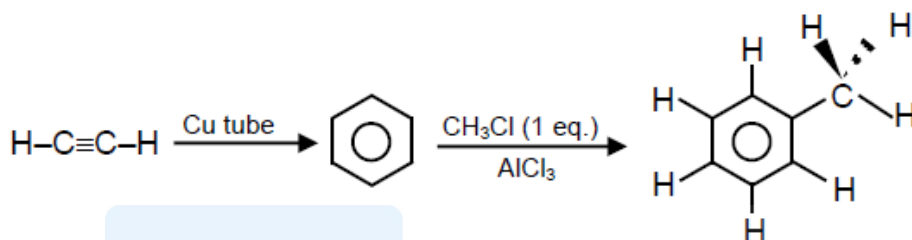
मुख्य उत्पाद (C) में कितने परमाणु समान तल में उपस्थित है?



8th Jan Evening

Sol

13.00

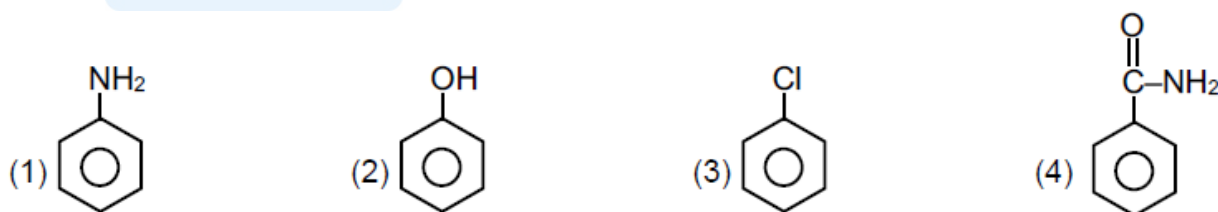


Number of atoms in one plane = 13

Q5

Which of the following can give highest yield in Friedel craft reaction?

निम्न में से कौन फ्रिडल-क्राफ्ट अभिक्रिया में अधिकतम लब्धि दे सकता है?



9th Jan Morning

Sol

(2)

Aniline form anilinium complex with lewis acid so phenol is most reactive among the given compounds for electrophilic substitution reaction.

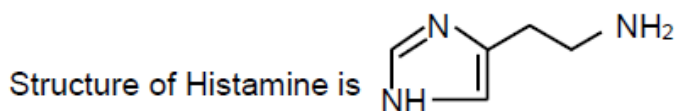
Q6

Find percentage nitrogen by mass in Histamine ?

9th Jan Morning

Sol

37.84

Molecular formula of Histamine is $C_5H_9N_3$

Molecular mass of Histamine is 111

$$\text{Percentage nitrogen by mass in Histamine} = \frac{42}{111} \times 100 = 37.84\%$$

Q7

Number of sp^2 hybrid orbitals in Benzene is :बेन्ज़िन में sp^2 संकरित कक्षकों की संख्या है—

(1) 18

(2) 24

(3) 6

(4) 12

9th Jan Evening

Sol

(1)

In benzene total six sp^2 hybrid carbon atoms are present. Each carbon atom has 3 sp^2 hybrid orbitals. Therefore total sp^2 hybrid orbitals are 18 in benzene.

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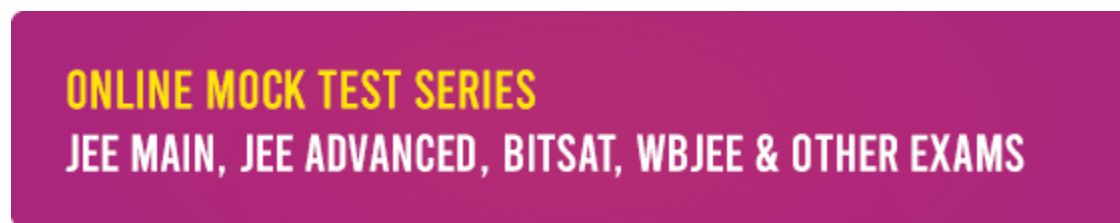
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