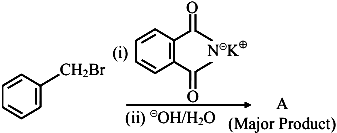
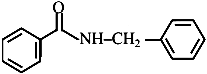
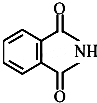
Motion N30

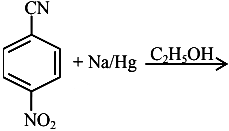
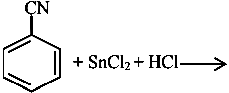
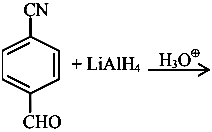
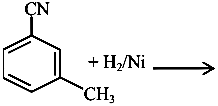
# Question 1

what is A in the following reaction ?

1. 
2. image
3. 
4. image

# Question 2

Which one of the products of the following reactions does not react with Hinsberg reagent to form sulphonamide? [25 Jul 2021]

1. 
2. 
3. 
4. 

# Question 3

An organic compound "A" on treatment with benzene sulphonyl chloride gives compound is soluble in dil. solution. Compound is\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

# Question 4

The total number of reagents from those given below, that can convert nitrobenzene into aniline is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Integer answer)

|  |  |
| --- | --- |
|  |  |
|  | Raney nickel |

# Question 5

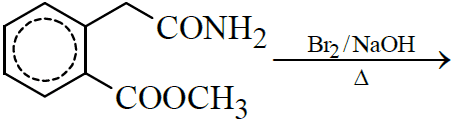
Match List I with List II.

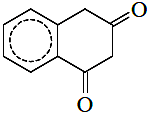
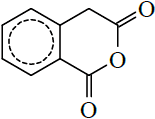
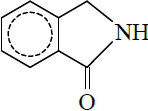
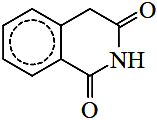
| List-I | List-II |
| --- | --- |
| A. Benzenesulphonyl Chloride | I. Test for primary amines |
| B. Hoffmann bromamide reaction | II. Anti Saytzeff |
| C. Carbylamine reaction | III. Hinsberg reagent |
| D. Hoffmann orientation | IV. Known reaction of Isocyanates |

Choose the correct answer from the options given below:

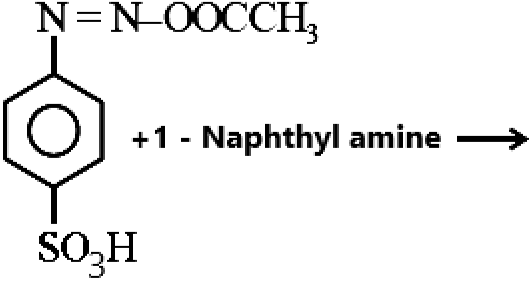
1. A-IV, B-III, C-II, D-I
2. A-IV, B-II, C-I, D-II
3. A-III, B-IV, C-I, D-II
4. A-IV, B-III, C-I, D-II

# Question 6

The major product formed in the following reaction is.

1. 
2. 
3. 
4. 

# Question 7

Choose the correct colour of the product for the following reaction.

1. Yellow
2. White
3. Red
4. Blue

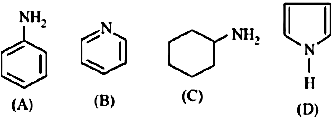
# Question 8

The correct order in aqueous medium of basic strength in case of methyl substituted amines is :

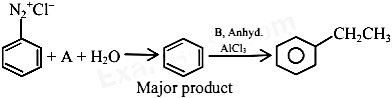
# Question 9

Number of isomeric aromatic amines with molecular formula , which can be synthesized by Gabriel Phthalimide synthesis is \_\_\_\_\_\_\_\_\_\_\_.  [6-Apr-2023]

# Question 10

The decreasing order of basicity of the following amines is:

# Question 11

the chemical reactions given above and respectively are:

1. and
2. and
3. and
4. and

# Question 12

The number of nitrogen atoms in a semicarbazone molecule of acetone is\_\_\_\_\_\_\_\_\_\_\_\_\_.

# Question 13

The total number of reagents from those given below, that can convert nitrobenzene into aniline is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Integer answer)

|  |  |
| --- | --- |
|  |  |
|  | Raney nickel |

# Question 14

Match List I with List II.

| List-I | List-II |
| --- | --- |
| A. Benzenesulphonyl Chloride | I. Test for primary amines |
| B. Hoffmann bromamide reaction | II. Anti Saytzeff |
| C. Carbylamine reaction | III. Hinsberg reagent |
| D. Hoffmann orientation | IV. Known reaction of Isocyanates |

Choose the correct answer from the options given below:

1. A-IV, B-III, C-II, D-I
2. A-IV, B-II, C-I, D-II
3. A-III, B-IV, C-I, D-II
4. A-IV, B-III, C-I, D-II

# Question 15

Given below are two statements :Statement I: Aniline reacts with con. followed by heating at gives p-aminobenzene sulphonic acid, which gives blood red colour in the ’Lassaigne’s test’.II: In Friedel - Craft’s alkylation and acylation reactions, aniline forms salt with the catalyst.to this, nitrogen of aniline aquires a positive charge and acts as deactivating group.the light of the above statements, choose the correct answer from the options given below :

1. Statement I is false but statement II is true
2. Both statement I and statement II are false
3. Statement I is true but statement II is false
4. Both statement I and statement II are true

# Question 16

In the reaction of hypobromite with amide, the carbonyl carbon is lost as

# Question 17

The total number of reagents from those given below, that can convert nitrobenzene into aniline is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Integer answer)

|  |  |
| --- | --- |
|  |  |
|  | Raney nickel |

# Question 18

Match List I with List II.

| List-I | List-II |
| --- | --- |
| A. Benzenesulphonyl Chloride | I. Test for primary amines |
| B. Hoffmann bromamide reaction | II. Anti Saytzeff |
| C. Carbylamine reaction | III. Hinsberg reagent |
| D. Hoffmann orientation | IV. Known reaction of Isocyanates |

Choose the correct answer from the options given below:

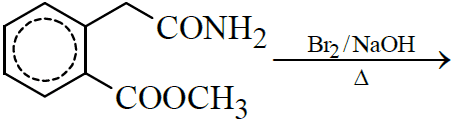
1. A-IV, B-III, C-II, D-I
2. A-IV, B-II, C-I, D-II
3. A-III, B-IV, C-I, D-II
4. A-IV, B-III, C-I, D-II

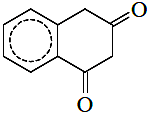
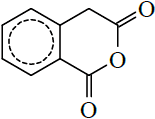
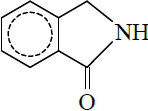
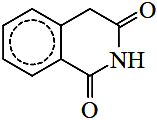
# Question 19

Primary, secondary and tertiary amines can be separated using.

1. para-toluene sulphonyl chloride
2. chloroform and
3. benzene sulphonic acid
4. acetyl amide

# Question 20

The major product formed in the following reaction is.

1. 
2. 
3. 
4. 

# Question 21

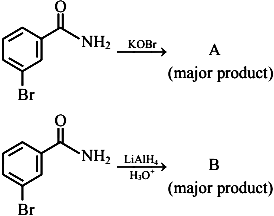
Hydrolysis of which compound will give carbolic acid?

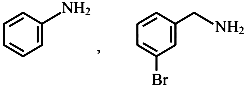
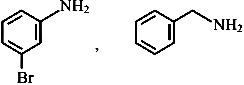
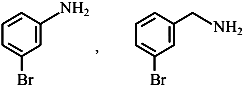
1. Cumene
2. Benzenediazonium chloride
3. Benzal chloride
4. Ethylene glycol ketal

# Question 22

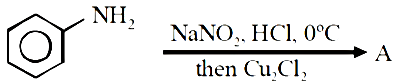
has how many isomeric forms that contain a benzene ring?

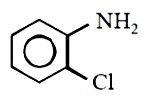
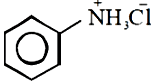
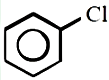
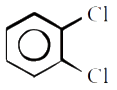
# Question 23

the above reactions, product and product respectively are:

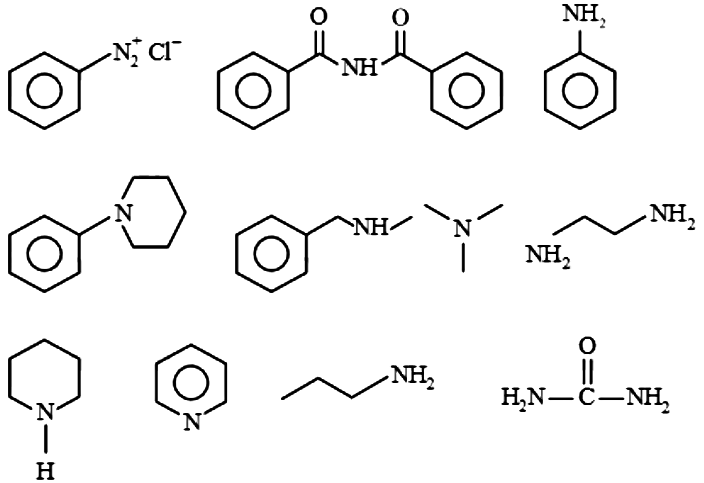
1. 
2. 
3. image
4. 

# Question 24

The product A formed in the following reaction is:

1. 
2. 
3. 
4. 

# Question 25

Number of compounds which give reaction with Hinsberg’s reagent is \_\_\_\_\_\_\_.

# Question 26

Given below are two statements :Statement I: Aniline reacts with con. followed by heating at gives p-aminobenzene sulphonic acid, which gives blood red colour in the ’Lassaigne’s test’.II: In Friedel - Craft’s alkylation and acylation reactions, aniline forms salt with the catalyst.to this, nitrogen of aniline aquires a positive charge and acts as deactivating group.the light of the above statements, choose the correct answer from the options given below :

1. Statement I is false but statement II is true
2. Both statement I and statement II are false
3. Statement I is true but statement II is false
4. Both statement I and statement II are true

# Question 27

In the reaction of hypobromite with amide, the carbonyl carbon is lost as

# Question 28

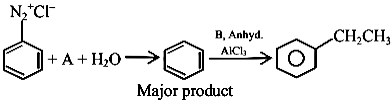
Hydrolysis of which compound will give carbolic acid?

1. Cumene
2. Benzenediazonium chloride
3. Benzal chloride
4. Ethylene glycol ketal

# Question 29

A compound with molecular mass 180 is acylated with to get a compound with molecular mass 390 . The number of amino groups present per molecule of the former compound is:

# Question 30

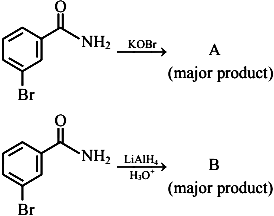
the chemical reactions given above and respectively are:

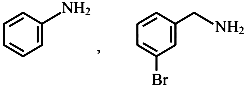
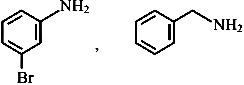
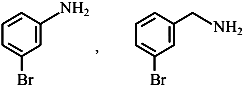
1. and
2. and
3. and
4. and

# Question 31

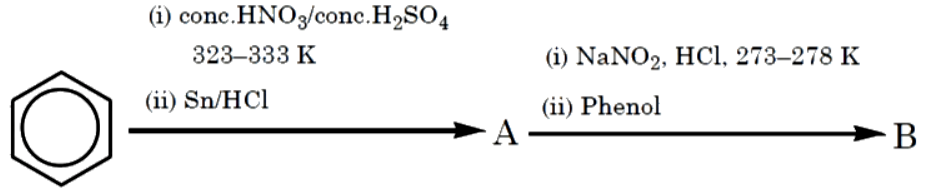
The total number of electrons around the nitrogen atom in amines are,

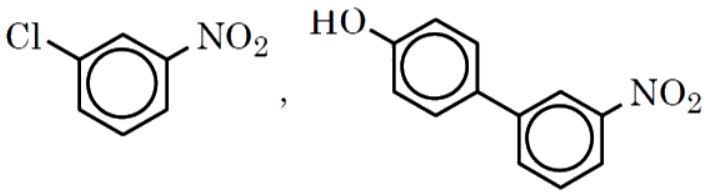
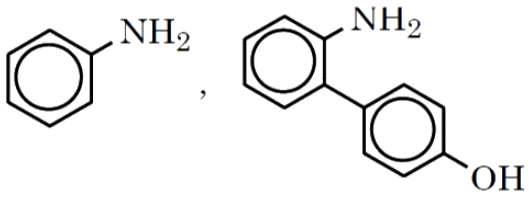
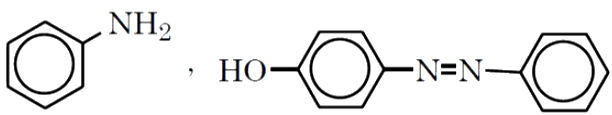
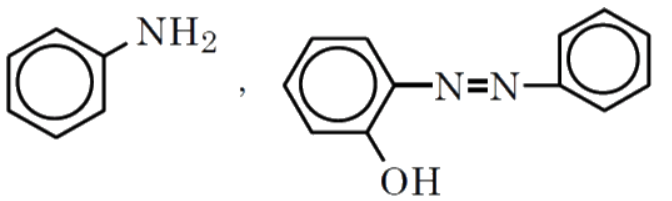
# Question 32

the above reactions, product and product respectively are:

1. 
2. 
3. image
4. 

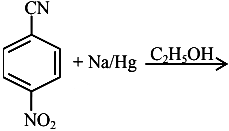
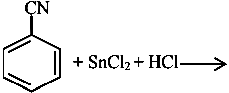
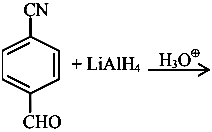
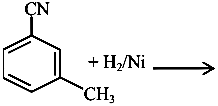
# Question 33

The products A and B formed in the following reaction scheme are respectively

1. 
2. 
3. 
4. 

# Question 34

Which one of the products of the following reactions does not react with Hinsberg reagent to form sulphonamide? [25 Jul 2021]

1. 
2. 
3. 
4. 

# Question 35

A primary aliphatic amine on reaction with nitrous acid in cold ( and there after raising temperature of reaction mixture to room temperature (298 K), gives.

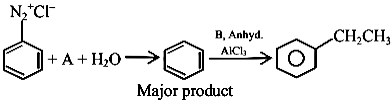
1. nitrile
2. alcohol
3. diazonium salt
4. secondary amine

# Question 36

During halogen test, sodium fusion extract is boiled with concentrated to

1. remove unreacted sodium
2. decompose cyanide or sulphide of sodium
3. extract halogen from organic compound
4. maintain the of extract.

# Question 37

the chemical reactions given above and respectively are:

1. and
2. and
3. and
4. and

# Question 38

The number of primary amines of formula is ?