

NEET AMINES — CHEMICAL REACTIONS OF DIAZONIUM SALTS, COUPLING REACTIONS AND AZO COMPOUNDS — PYQS

Max. Marks: 40

Questions: 10

Section A (MCQ) — 10 questions

Q.1 Given below are two statements :

Statement-I: Benzenediazonium salt is prepared by the reaction of aniline with nitrous acid at 273–278 K. It decomposes easily in the dry state.

Statement-II: Insertion of iodine into the benzene ring is difficult and hence iodobenzene is prepared through the reaction of benzenediazonium salt with KI.

In the light of the above statements, choose the most appropriate answer from the options given below:

[NEET (UG) 2025]

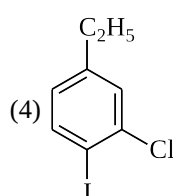
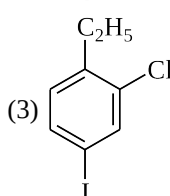
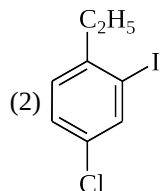
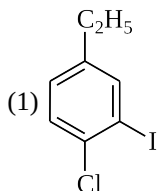
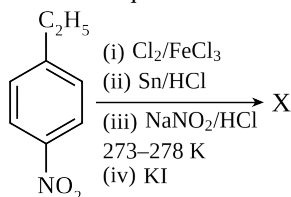
- (1) Statement-I is correct but Statement-II is incorrect
- (2) Statement-I is incorrect but Statement-II is correct
- (3) Both Statement-I and Statement-II are correct
- (4) Both Statement-I and Statement-II are incorrect

Scan or tap for the full solution



Q.2 The major product X formed in the following reaction sequence is :

[RE-NEET (UG) 2024]

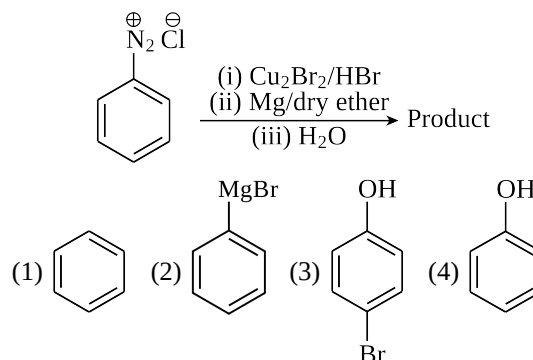


Scan or tap for the full solution



Q.3 Identify the product in the following reaction:

[NEET (UG) 2023]

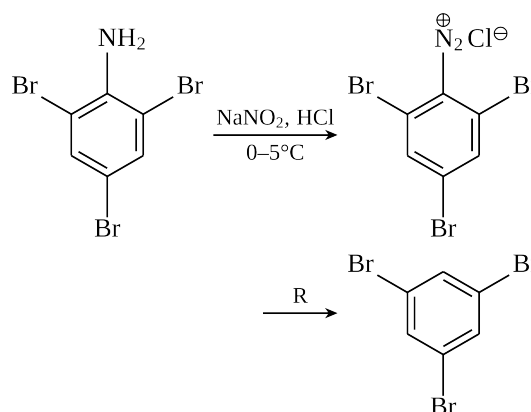


Scan or tap for the full solution



Q.4 The reagent 'R' in the given sequence of chemical reaction is :

[NEET (UG) 2021]



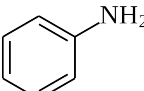
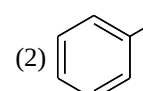
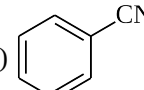
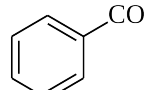
- (1) CuCN/KCN
- (2) H₂O
- (3) CH₃CH₂OH
- (4) HI

Scan or tap for the full solution



Q.5 A given nitrogen-containing aromatic compound 'A' reacts with Sn/HCl, followed by HNO₂ to give an unstable compound 'B'. 'B', on treatment with phenol, forms a beautiful coloured compound 'C' with the molecular formula C₁₂H₁₀N₂O. The structure of compound 'A' is

[NEET 2016 (Phase 2)]

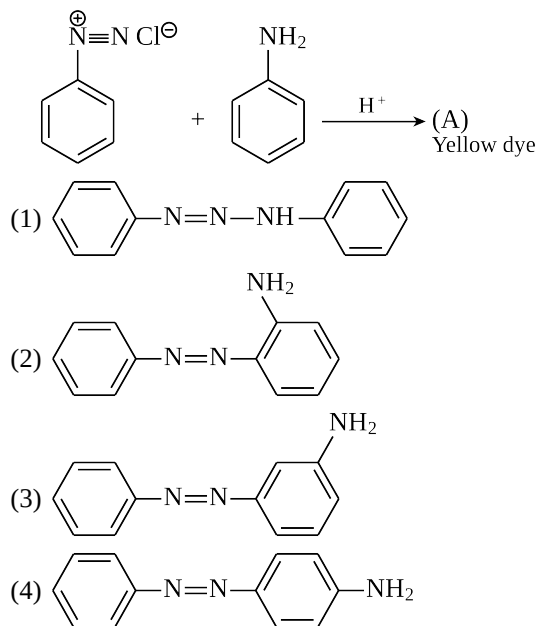
- (1) 
- (2) 
- (3) 
- (4) 

Scan or tap for the full solution



Q.6 In the following reaction, the product (A) is

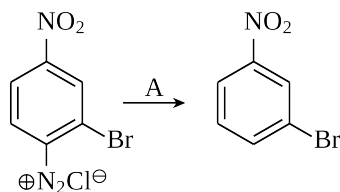
[AIPMT 2014]



Scan or tap for the full solution



Q.7 In the reaction



A is

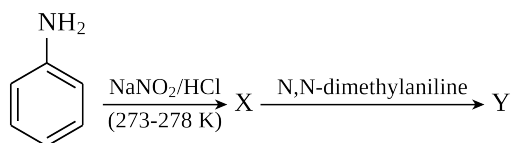
- (1) H_3PO_2 and H_2O (2) $\text{H}^+/\text{H}_2\text{O}$
 (3) $\text{HgSO}_4/\text{H}_2\text{SO}_4$ (4) Cu_2Cl_2

[NEET 2013]

Scan or tap for the full solution



Q.8 Aniline in a set of the following reactions yielded a coloured product Y.



The structure of 'Y' would be [AIPMT 2010 (Prelims)]

- (1)

 (2)

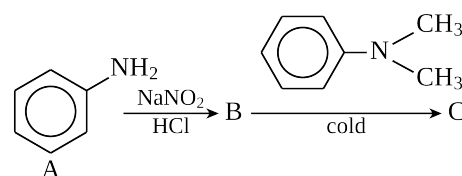
 (3)

 (4)

Scan or tap for the full solution



Q.9 In a reaction of aniline a coloured product C was obtained.



The structure of C would be

[AIPMT 2008]

- (1)

 (2)

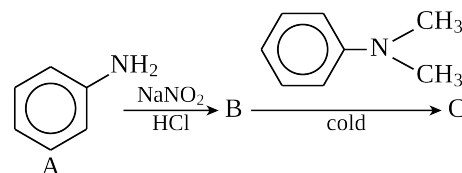
 (3)

 (4)

Scan or tap for the full solution

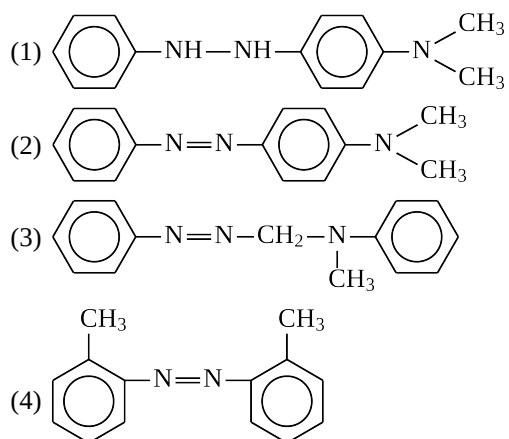


Q.10 In a reaction of aniline a coloured product C was obtained.



The structure of C would be

[AIPMT 2004]



Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	
Ans.	3	3	1	3	2	4	1	1	2	2	