



CHEMISTRY

JEE MAIN AND ADVANCED

MOCK TEST 35

Exercise

1. Among the following halide ions (X^-) reaction, which is feasible?

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2. The number of all possible products excluding stereoisomers obtained on monochlorination of n-butane and iso-butane are respectively

A. 2 and 3

B. 3 and 2

C. 2 and 1

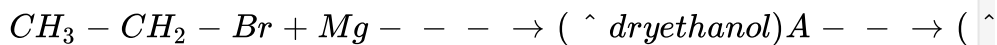
D. 2 and 2

Answer: D

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3. The lisat product (B) formed in the following reaction is

A.



B. $CH_3 - CH_2 - OH$

C. $CH_3 - CH_3$

D. $CH_3 - CH_2 - COOH$

Answer: C

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4. In dénydrohalogenation of tert-pentyl bromide using alc. KOH, major product obtained is

A. 2-Methylbut-1-ene

B. 2-Methylbut-2-ene

C. Pen! 1-ene

D. Pent-2 ene

Answer: B



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5. The one of the product formed in the reaction is

($\forall K_M C P_{35} - N \exists T_C H E_E 35_{005} - Q01$)

A. Substituted haloarene

B. Aromatic hydrocarbon

C. Organometallic compound

D. Substituted haloalkane

Answer: B

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6. Which of the following is not one of the products formed in the reaction? $2CH_3 - CH_2 - Cl + 2Na \xrightarrow{\text{dry ethanol}}$

A. $CH_3 - CH_3$

B. $CH_2 = CH_2$

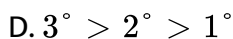
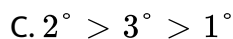
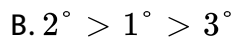
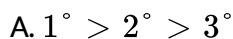
C. $CH_3 - CH_2 - CH_2 - CH_3$

D. $CH_3 - CH_2 - CH_3$

Answer: D

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7. For dehydrohalogenation, the order of reactivity of alkyl halides considering E1 mechanism is

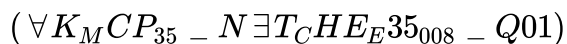


Answer: D



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8. The following reaction is an example of



A. Fittig reaction

B. Wurtz-fittig reaction

C. Sandmeyer's Reaction

D. Wurtz reaction

Answer: D

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9. Find the major product of the following reaction

($\forall K_M C P_{35} - N \exists T_C H E_E 35_{009} - Q01$)

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10. Which of the following molecules would have a carbon-halogen bond least susceptible to nucleophilic aromatic substitution reaction?

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11. The product A obtained in the reaction is called

($\forall K_M C P_{35} - N \exists T_C H E_E 35_{011} - Q01$)

A. Salicylic acid

B. Citric acid

C. Picric acid

D. Benzoic acid

Answer: C

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12. Arrange the following compounds in order of increasing reactivity towards nitration ($\forall K_MCP_{35} - N\exists T_CHE_E35_{012} - Q01$)

A. (ii) lt (i) lt (iii) lt (iv)

B. (iii) lt (ii) lt (iv) lt (i)

C. (iv) lt (iii) lt (ii) lt (i)

D. (iii) lt (ii) lt (i) lt (iv)

Answer: B

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13. In electrophilic substitution reactions of haloarenes, halogen atom is

- A. Slightly activating and o, p-directing
- B. Slightly deactivating and meta directing
- C. Slightly activating and meta directing
- D.

Answer: C

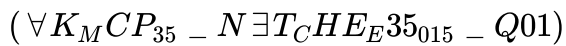
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14. The major product formed in the reaction is

($\forall K_M C P_{35} - N \exists T_C H E_E 35_{014} - Q01$)

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15. The given reaction is an example of



- A. Wurtz reaction
- B. Sandmeyer's reaction
- C. Friedel-Crafts reaction
- D. Fittig reaction

Answer: C



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16. Chemical formula of Freon 12 is

- A. CH_2F_2
- B. CH_2Cl_2
- C. CCLF_3
- D. CCL_2F_2

Answer: D

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17. Which product is expected to predominate in the given reaction

($\forall K_M CP_{35} - N \exists T_C H E_E 35_{017} - Q01$)

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18. An important chlorinated organic insecticide is prepared from the given reaction. The structure of A is

($\forall K_M CP_{35} - N \exists T_C H E_E 35_{018} - Q01$)

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19. For the given reaction, the major product obtained is

($\forall K_M CP_{35} - N \exists T_C H E_E 35_{019} - Q01$)

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20. The correct structure of product B, formed in the reaction sequence is

($\forall K_M C P_{35} - N \exists T_C H E_E 35_{020} - Q01$)

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21. The reaction intermediate formed in the given reaction bears

($\forall K_M C P_{35} - N \exists T_C H E_E 35_{021} - Q01$)

- A. Positive charge
- B. Negative charge
- C. Both positive and negative charge
- D. No charge

Answer: D

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22. What are the products obtained from the following reaction?

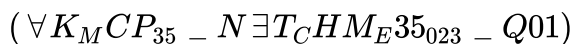


- A. HCHO and HCl
- B. HCOCl and HCl
- C. $COCl_2$ and HCl
- D. $COCl_2$ and HCOCl

Answer: C

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23. Identify P in the following series of reactions



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24. ($\forall K_M CP_{35} - N \exists T_C H E_E 35_{024} - Q01$) Total number of isomers (including stereo isomers) of B obtained in the above reaction are

A. 2

B. 3

C. 4

D. 5

Answer: D



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