



CHEMISTRY

JEE MAIN AND ADVANCED

MOCK TEST 36

Exercise

1. Which of the following is an allylic alcohol?



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2. Choose the secondary alcohol among the following

A. Isobutyl alcohol

B. Isopropyl alcohol

C. Isopentyl alcohol

D. Neopentyl alcohol

Answer: B



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3. The alcohol having least solubility in water is

A. Ethanol

B. 1-Propanol

C. 1-Butanol

D. 1-Pentanol

Answer: D



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4. The correct structure of hydroquinone or quinol is



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5. In acid catalysed hydration of alkenes, reaction intermediate formed is

A. Free radical

B. Carbocation

C. Carbanion

D. Carbene

Answer: B



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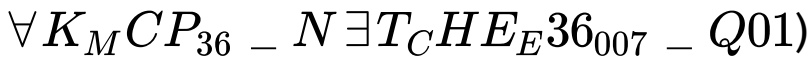
6. The products formed in the reaction are (

$\forall K_M CP_{36} - N \exists T_C H E_E 36_{006} - Q01)$



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7. Identify the products obtained in the following reaction (



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8. Which of the following product is expected to form 13. Pa in the given reaction? (



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9. Phenol is also known as

- A. Phenolic acid
- B. Hydroxy cinnamic acid
- C. Carbolic acid
- D. Hydroxy carbolic acid

Answer: C



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10. The product, P formed in the reaction is (

$\forall K_M CP_{36} - N \exists T_C H E_E 36_{010} - Q01)$



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11. Correct order of boiling point is

A. n-butane lt ethoxyethane lt pentan-1-ol

B. n-butane ltpentan-1-olltethoxyethane

C. Ethoxyethane ltn-butane lt pentan-1-ol

D. Pentan-1-ol ltethoxyethane ltn-bulane

Answer: A



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12. When cumene is oxidised in the presence of air followed by treatment with dilute acid, the products obtained are

A. Benzoic acid and Methanol

B. Phenol and Acetone

C. Benzoic acid and Acetone

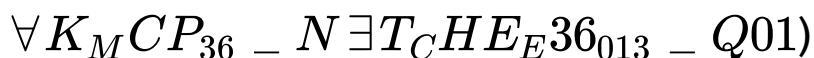
D. Phenol and Acetaldehyde

Answer: B



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13. Products A, B and C in the following reactions are (



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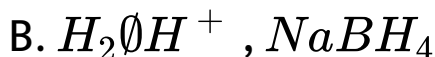
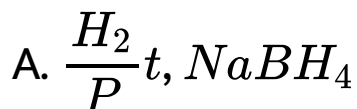
14. ($\forall K_M CP_{36} - N \exists T_C H E_E 36_{014} - Q01)$

Major product P in the above reaction is



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15. ($\forall K_M CP_{36} - N \exists T_C H E_E 36_{015} - Q01$) The reagents, A and B are respectively



Answer: D



16. Which of the following statement is correct for alcohols?

- A. They react only as a nucleophile
- B. They react only as an electrophile
- C. They react both as a nucleophile and an electrophile
- D. They neither react as a nucleophile nor an electrophile

Answer: C



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17. The reaction in which hydrogen is not one of the product is



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18. Arrange the following in order of increasing basic strength.



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19. The correct decreasing order of acidic character of following phenols is

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20. Acetylation of salicylic acid produces

- A. Adipic acid
- B. Picric acid
- C. Glutaric acid

D. Aspirin

Answer: D



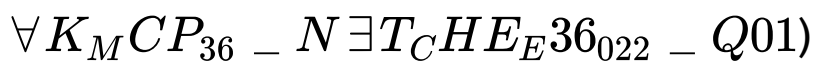
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21. Product formed in the following reaction is



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22. Consider the following reaction and identify the products (



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23. Formation of Salicylic acid from phenol (Kolbe's reaction) is an example of

A. Electrophilic addition reaction

B. Nucleophilic addition reaction

C. Electrophilic substitution reaction

D. Nucleophilic substitution reaction

Answer: C



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24. Reaction intermediate formed in the formation of salicylaldehyde from phenol (Reimer-Tiemann reaction) is

A. Carbocation

B. Free radical

C. Carbanion

D. Carbene

Answer: D



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25. The structure the product formed on oxidation of phenol with chromic acid is



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26. Major product P formed in the reaction is (

$\forall K_M CP_{36} - N \exists T_C H E_E 36_{026} - Q01)$



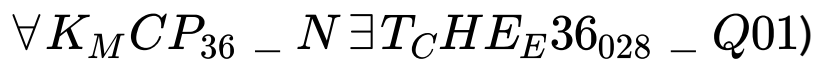
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27. Which of the following molecules has zero dipole moment?



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28. Product B in the following reaction is(



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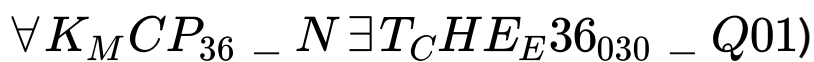
29. Identify A and B in the following sequence

of reaction (



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30. The final product D formed in the following series of reactions is (



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