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सद्गुरु श्री रणछोड़दासजी महाराज

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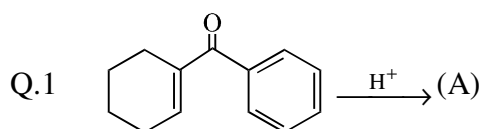


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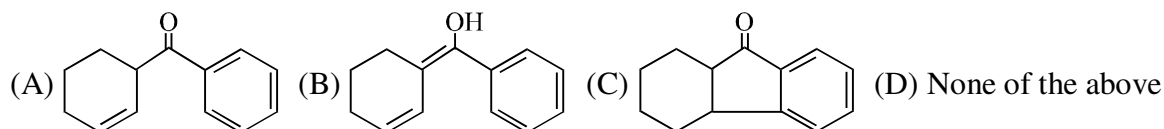
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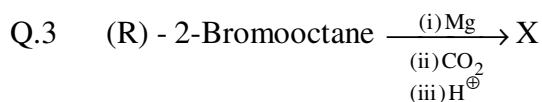
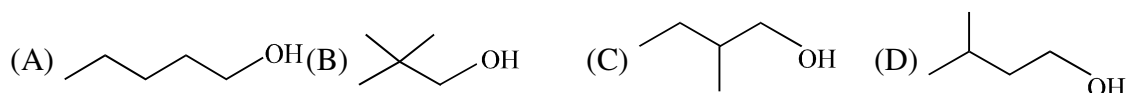
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(A) is



Q.2 Which of the following alcohols cannot be prepared from an alkene?



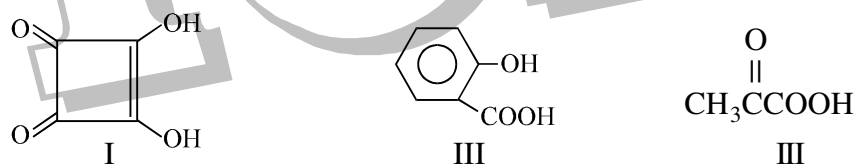
X is



Q.4 Identify the true statement

- (A) Alkyl group exhibit +I effect when directly attached with π system
 (B) Dipole of acetone is more than acetaldehyde
 (C) Boiling point of acetone is more than acetaldehyde
 (D) All the above

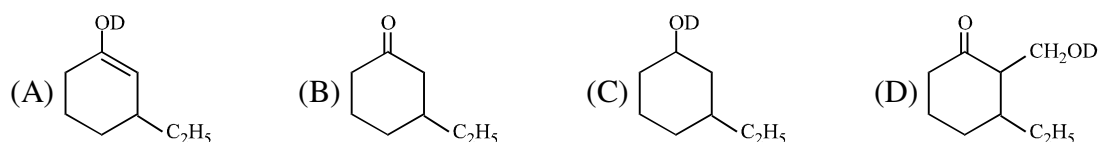
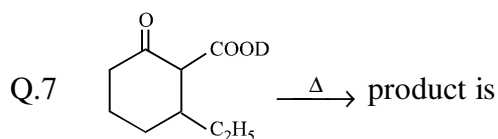
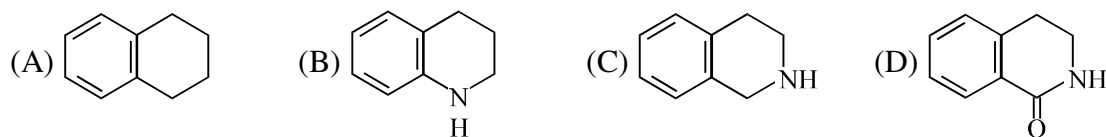
Q.5 Consider the following compound



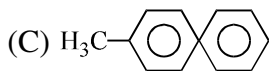
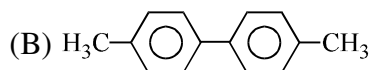
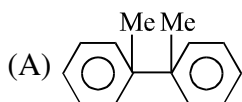
Which of the above compounds reacts with $NaHCO_3$ giving CO_2

- (A) I, II and III (B) I and III (C) II and III (D) I and II

Q.6 Which one of the following compounds undergoes bromination of its aromatic ring (electrophilic aromatic substitution) at the *fastest* rate?

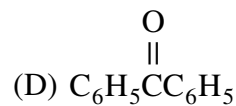
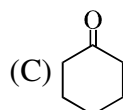
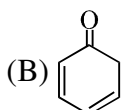
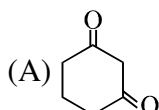


Q.8 The product in the reaction $\text{Me}-\text{C}_6\text{H}_4-\text{I} + \text{Cu} + \text{Heat} \rightarrow$ is

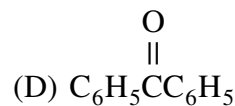
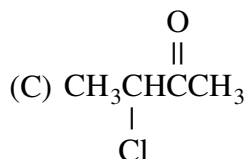
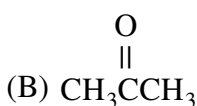
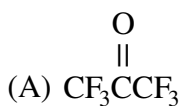


(D) None

Q.9 Enolisation is maximum in case of

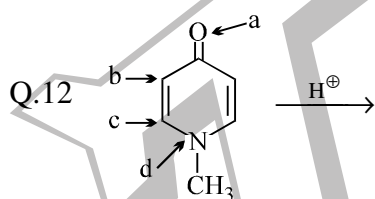


Q.10 Maximum hydration takes place of



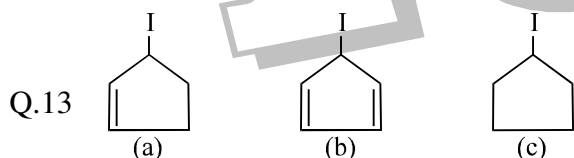
Q.11 $\text{CH}_2 = \text{CH} - \text{CH} = \text{CH}_2$; the bond between $\text{C}_2 - \text{C}_3$ is shorter than single bond because:

- (A) +I effect (B) -I effect (C) M effect (D) hyper conjugation effect



Identify the site, where protonation is favourable.

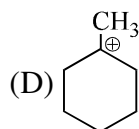
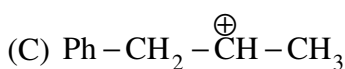
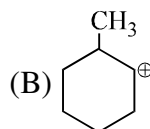
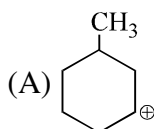
- (A) a (B) b (C) c (D) d



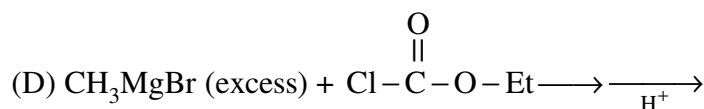
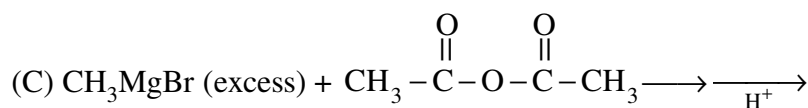
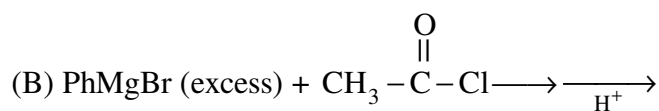
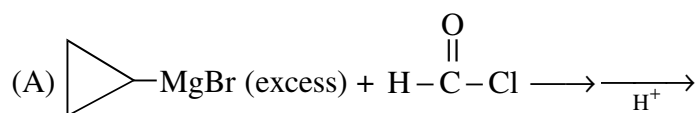
Rate of abstraction of iodine by Ag^{\oplus} is

- (A) $a > b > c$ (B) $b > a > c$ (C) $c > a > b$ (D) $a > c > b$

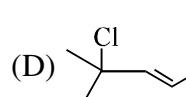
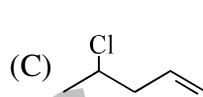
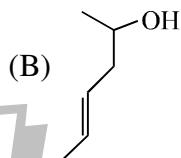
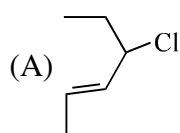
Q.14 Which one of the following carbocation would you expect to rearrange.



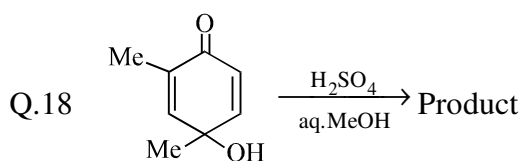
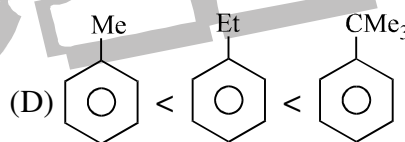
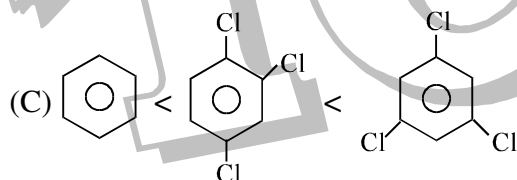
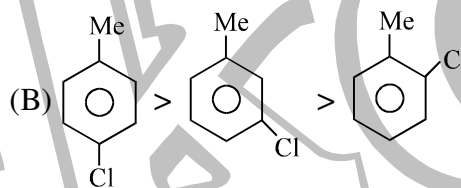
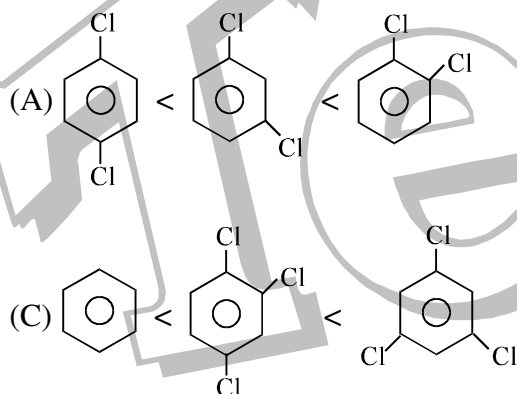
Q.15 In which of the following reactions 3° alcohol will be obtained as a product.



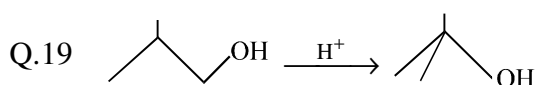
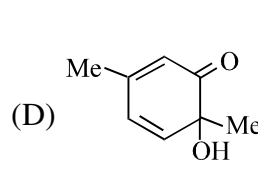
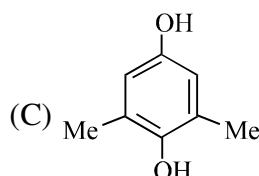
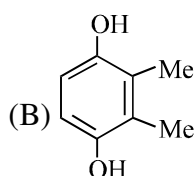
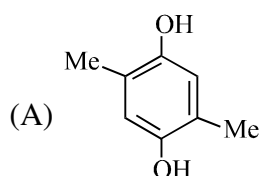
Q.16 Which of the following compound can show geometrical & optical isomerism.



Q.17 Correct order of dipole moment is



The major product is:



The above reaction involves the migration of

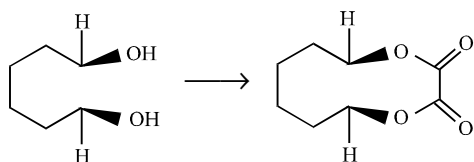
(A) hydride

(B) methanide

(C) C-C bond

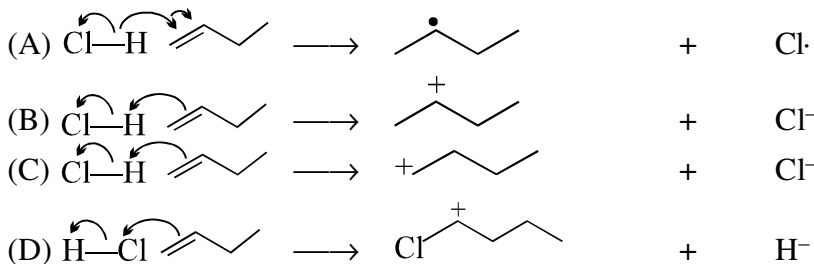
(D) None

Q.20 Find the reagent used to bring about following conversions.



- (A) $\text{ClCOCH}_2 - \text{CH}_2 \text{COCl}$ (B) $\text{CH}_3\text{COOCOCH}_3$
 (C) $\text{CH}_3 \text{COCl}$ (D) ClCO COCl

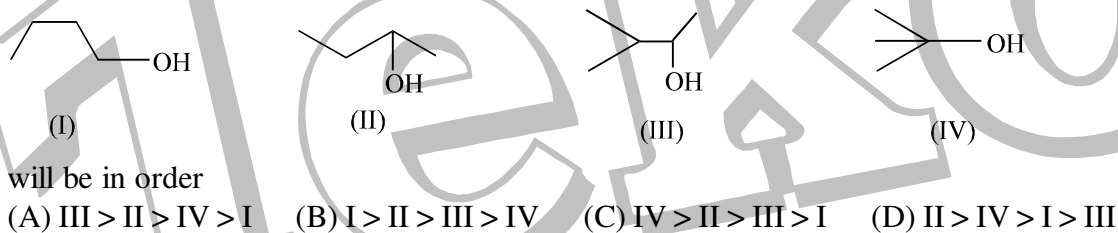
Q.21 Which of the following most accurately describes the first step in the reaction of hydrogen chloride with 1-butene?



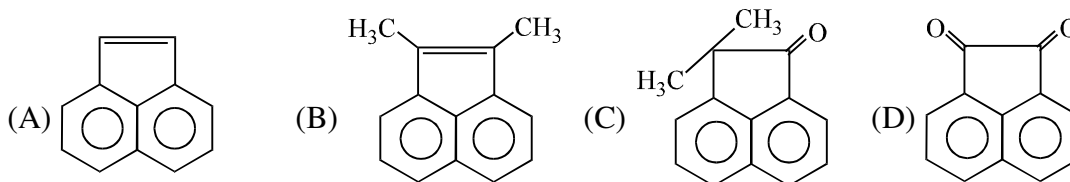
Q.22 Which of the following statements is true?

- (A) $\text{CH}_3\text{CH}_2\text{S}^-$ is both a stronger base and more nucleophilic than $\text{CH}_3\text{CH}_2\text{O}^-$.
 (B) $\text{CH}_3\text{CH}_2\text{S}^-$ is a stronger base but is less nucleophilic than $\text{CH}_3\text{CH}_2\text{O}^-$.
 (C) $\text{CH}_3\text{CH}_2\text{S}^-$ is a weaker base but is more nucleophilic than $\text{CH}_3\text{CH}_2\text{O}^-$.
 (D) $\text{CH}_3\text{CH}_2\text{S}^-$ is both a weaker base and less nucleophilic than $\text{CH}_3\text{CH}_2\text{O}^-$.

Q.23 Dehydration of the alcohols

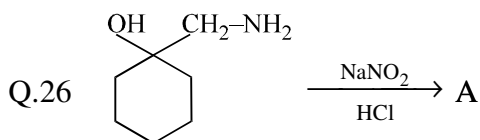


Q.24 $\xrightarrow{\text{H}^+}$? Product is:

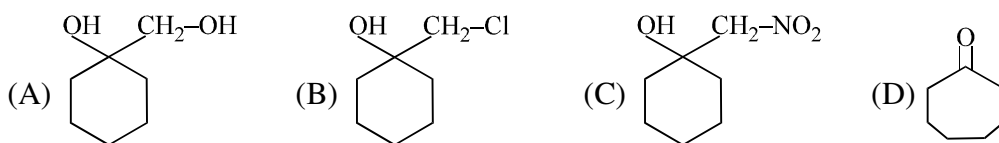


Q.25 $\text{HO}-\text{C}-\text{C}-\text{C}-\text{C}-\text{Cl} \xrightarrow{\text{OH}^-}$? Product is:

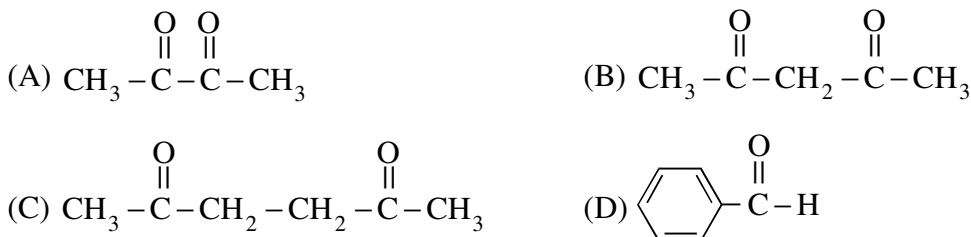




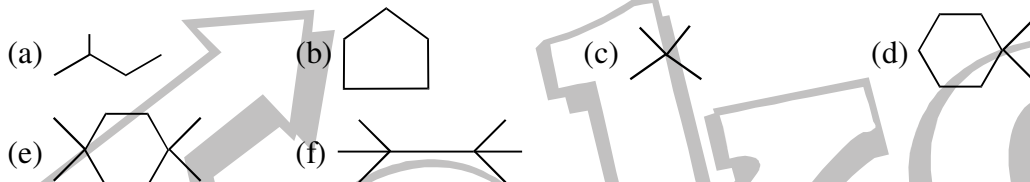
A is



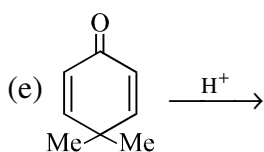
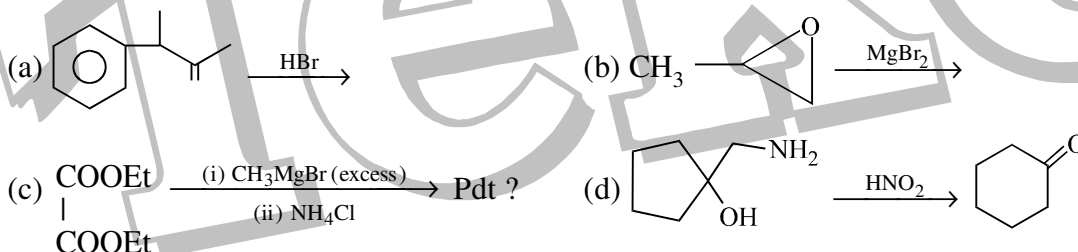
Q.27 Nucleophilic addition of Grignard reagent cannot occur in



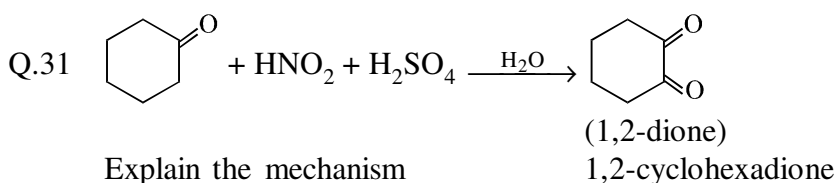
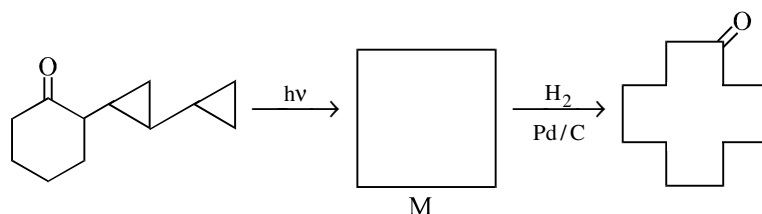
Q.28 Circle all alkane that give only one alkyl-chloride upon reaction with chlorine and light.



Q.29 Identify unknown.



Q.30 Provide a structure for M and a mechanism for its formation. Please show all arrow pushing.

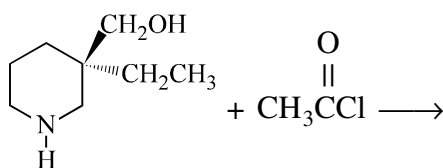


Explain the mechanism for this reaction

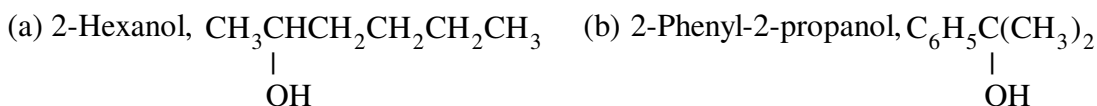
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Q.32 Deamination of n-BuNH₂ with NaNO₂ + HCl gives two butanols, three butene & two butyl chlorides. Give possible mechanism to these products.

Q.33 Identify the major and minor products of the following reaction.



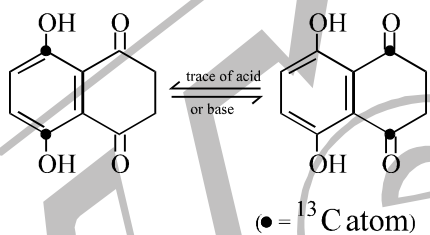
Q.34 Suggest two ways in which each of the following alcohols might be prepared by using a Grignard reagent:



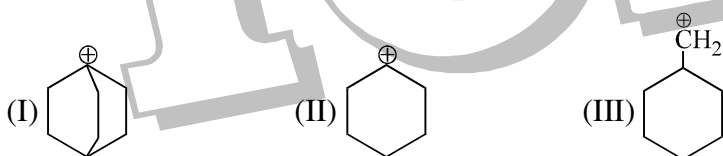
Q.35 What combination of ester and Grignard reagent could you use to prepare each of the following tertiary alcohols?



Q.36 Draw mechanism to the r × n

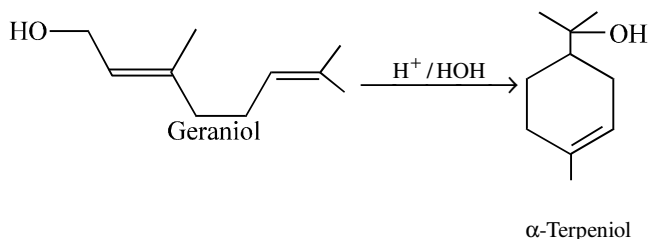


Q.37 Write the correct order of stability of following carbocation:

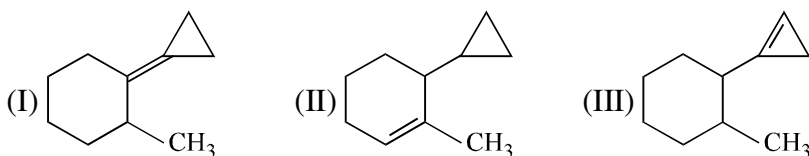


Q.38 Draw the Newmann projection formula of the most stable conformation of 3-hydroxy propanal across C₂ and C₃.

Q.39 Give mechanism for given reaction:



Q.40 Draw the structures of stable configuration obtained after acidic hydration of the following unsaturated compounds: (exclude rearranged products)

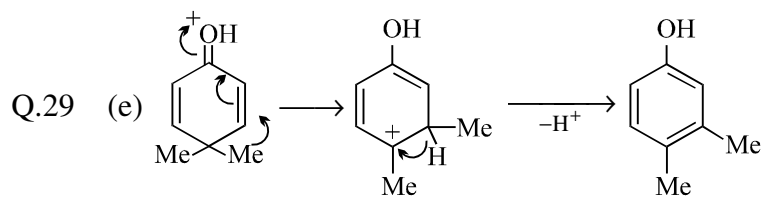


Successful People Replace the words like; "wish", "try" & "should" with "I Will". Ineffective People don't.

ANSWER KEY

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- Q.1 C Q.2 B Q.3 C Q.4 D Q.5 A Q.6 B Q.7 A
 Q.8 B Q.9 B Q.10 A Q.11 C Q.12 A Q.13 D Q.14 C
 Q.15 B,C,D Q.16 A,B Q.17 A,B,D Q.18 A Q.19 A Q.20 D Q.21 B
 Q.22 C Q.23 C Q.24 C Q.25 D Q.26 D Q.27 B
 Q.28 (b), (c), (f)



Q.36 Mechanism of Tautomerism

