

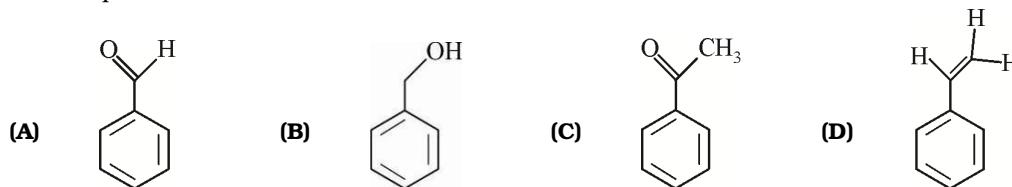
Date Planned : __ / __ / __	Daily Tutorial Sheet-7	Expected Duration : 45 Min
Actual Date of Attempt : __ / __ / __	JEE Advanced (Archive)	Exact Duration : _____

PARAGRAPH FOR QUESTIONS 91 - 92

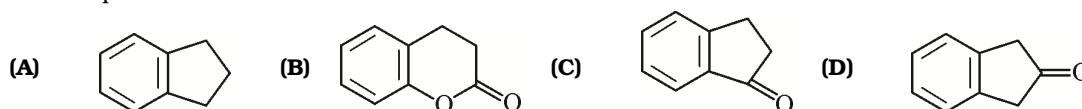
In the following reaction sequence, the compound **J** is an intermediate. $I \xrightarrow[\text{CH}_3\text{COONa}]{(\text{CH}_3\text{CO})_2\text{O}}$ **J** $\xrightarrow[\text{(iii) anhyd. AlCl}_3]{\text{(i) H}_2, \text{Pd/C; (ii) SOCl}_2}$ **K**

J ($\text{C}_9\text{H}_8\text{O}_2$) gives effervescence on treatment with NaHCO_3 and a positive Baeyer's test.

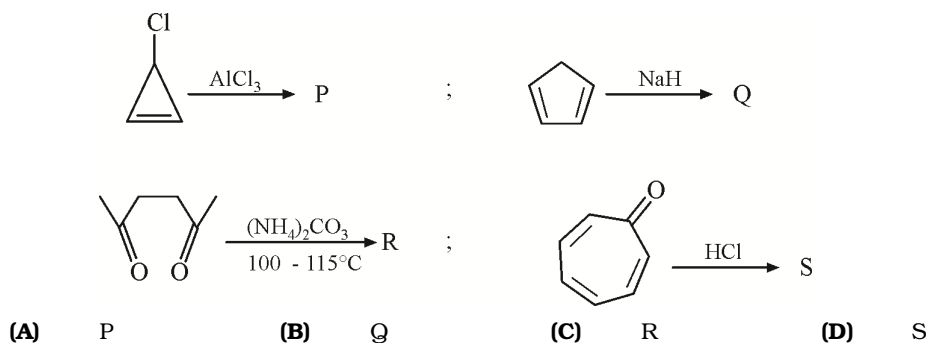
89. The compound **I** is : (2012)



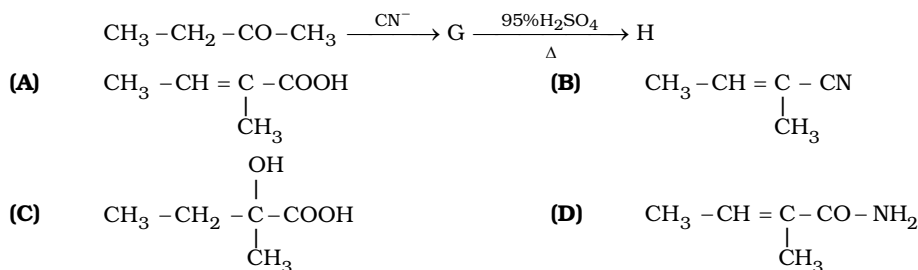
90. The compound **K** is : (2012)



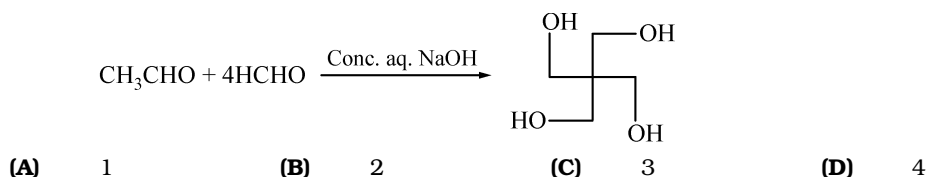
*91. Among P, Q, R and S, the aromatic compound(s) is(are) : (2012)



92. The major product **H** in the given reaction sequence is : (2012)



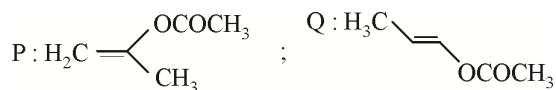
93. The number of aldol reaction(s) that occurs in the given transformation is : (2012)



94. The product of acid hydrolysis of P and Q can be distinguished by :

(2013)

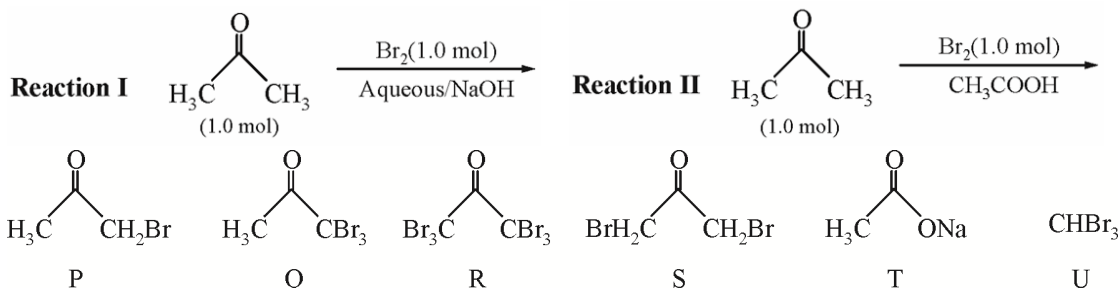
- (A) Lucas reagent
(B) 2, 4-DNP
(C) Fehling's solution
(D) NaHSO_3



95. After completion of the reactions (I and II), the origin compound(s) in the reaction mixtures is(are):



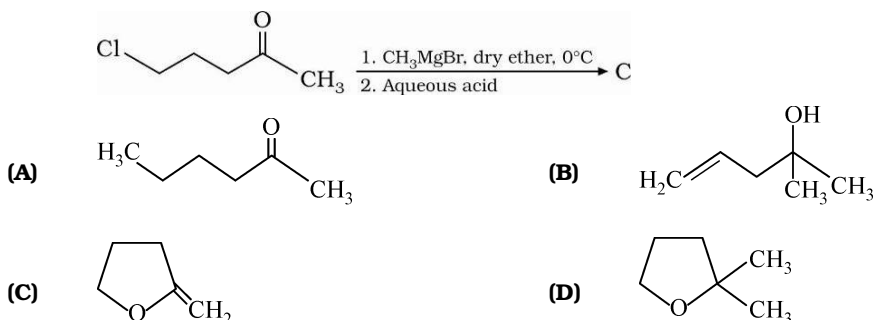
(2013)



- (A) Reaction I : P and reaction II : P
(B) Reaction I : U, acetone and reaction II : Q, acetone
(C) Reaction I : T, U, acetone and reaction II : P
(D) Reaction I : R, acetone and reaction II : S, acetone

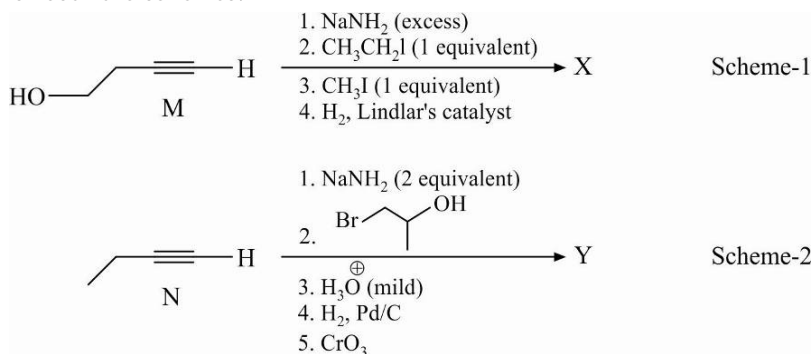
96. The major product in the following reaction is :

(2014)



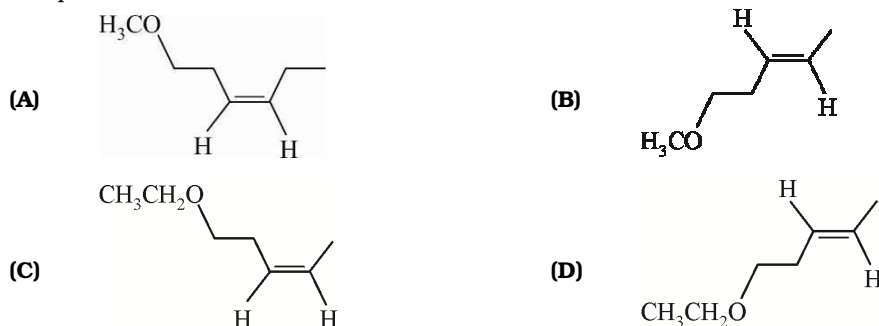
PARAGRAPH FOR QUESTIONS 97 - 98

Schemes 1 and 2 describe sequential transformation of alkynes M and N. Consider only the major products formed in each step for both the schemes.



97. The product X is :

(2014)



98. The correct statement with respect to product Y is :

(2014)

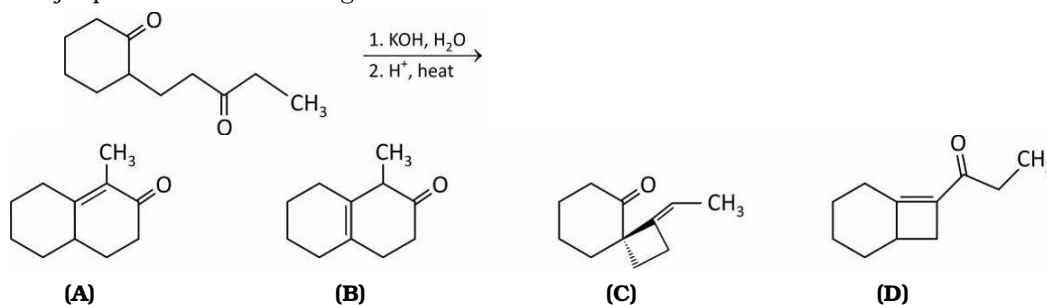
- (A) It gives a positive Tollens test and is a functional isomer of X
 (B) It gives a positive Tollens test and is a geometrical isomer of X
 (C) It gives a positive iodoform test and is a functional isomer of X
 (D) It gives a positive iodoform test and is a geometrical isomer of X

99. Consider all possible isomeric ketones including stereoisomers of MW = 100. All these isomers are independently reacted with NaBH_4 . The total number of ketones that gives a racemic product(s) is(are)_____.

(2014)

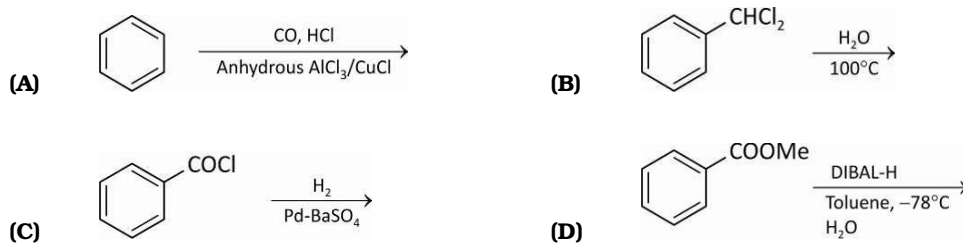
100. The major product of the following reaction is :

(2015)



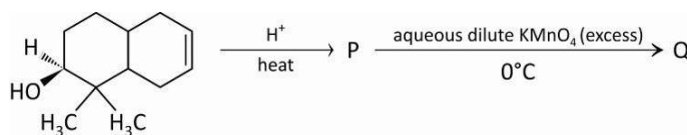
*101. Among the following, the number of reaction(s) that produce(s) benzaldehyde is _____.

(2015)



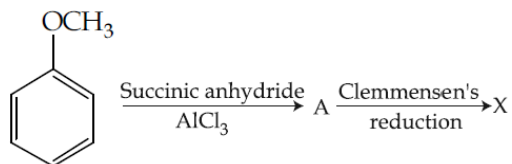
102. The number of hydroxyl group(s) in Q is :

(2015)



103. Consider the reaction sequence below :

(2016)



X is :

