

Topic : Hydrocarbon
Type of Questions

Single choice Objective ('-1' negative marking) Q.1 to Q.6

(3 marks 3 min.)

M.M., Min.

Comprehension ('-1' negative marking) Q.7 to Q.9

(3 marks 3 min.)

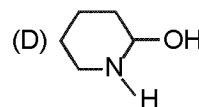
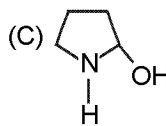
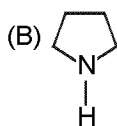
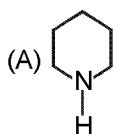
[18, 18]

Subjective Questions ('-1' negative marking) Q.10

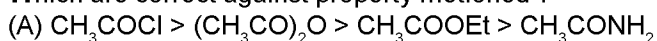
(4 marks 5 min.)

[9, 9]

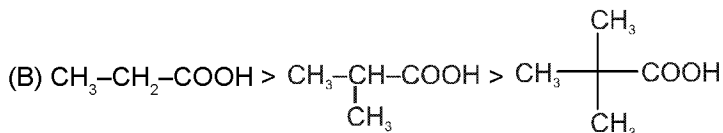
[4, 5]



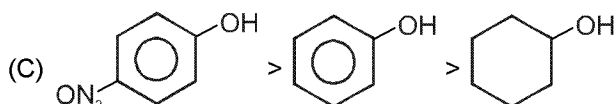
2. Which are correct against property mentioned ?



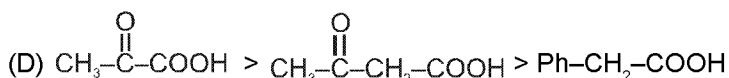
(Rate of hydrolysis)



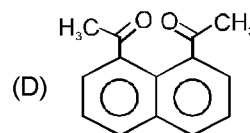
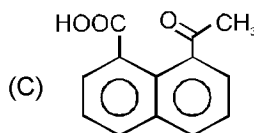
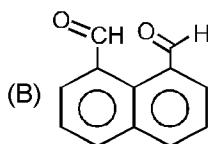
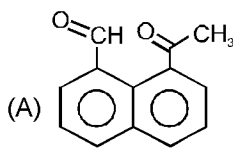
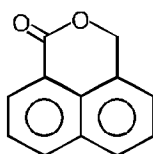
(Rate of esterification)



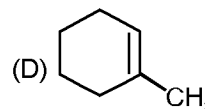
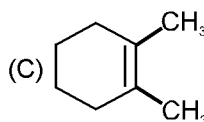
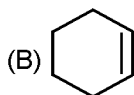
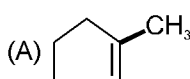
(Rate of esterification)



(Rate of decarboxylation)

 3. Which of the following reagent on reaction with conc. NaOH followed by H^+ gives following cyclic ester.


4. Hydrocarbon (X) on ozonolysis followed by treating with Zn-dust and water gives (Y) which on heating with alkali gives 1-acetyl cyclopentene. The structure of (X) is :



5. Isobutyl alcohol and secondary butyl alcohol can be distinguished by.

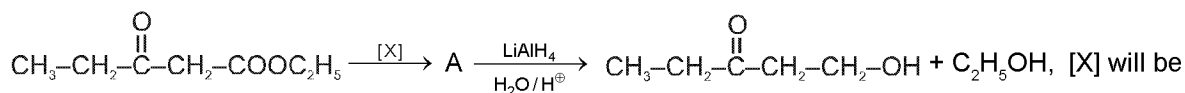
 (A) Oxidation with alkaline KMnO_4 & tollen's reagent.

(B) Oxidation with acidic dichromate & tollen's reagent

 (C) Oxidation by heating with copper followed by reaction with $\text{I}_2 / \text{OH}^\ominus$.

 (D) Oxidation by concentrated H_2SO_4 followed by reaction with fehling solution.

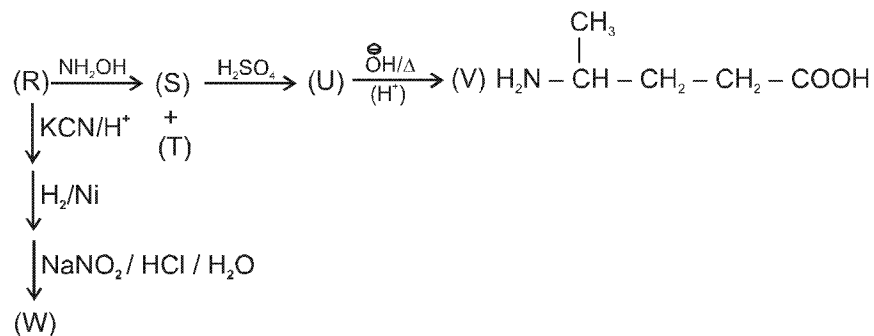

6. In the given reaction



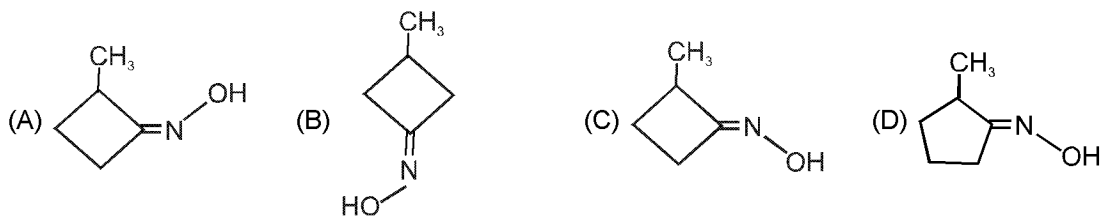
- (A) HCN (B) $\begin{array}{c} \text{CH}_2\text{-OH} \\ | \\ \text{CH}_2\text{-OH} \end{array} + \ominus\text{OH}$ (C) HCHO (D) $\text{CH}_2 \begin{array}{l} \diagup \text{CH}_2\text{-SH} \\ \diagdown \text{CH}_2\text{-SH} \end{array} + \text{H}^{\oplus}$

Comprehension # (Q.7 to 9)

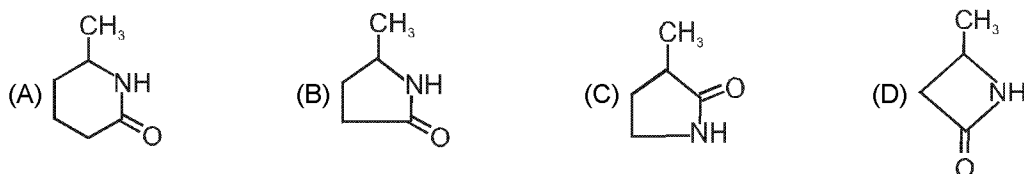
Answer the questions on the basis of following observations



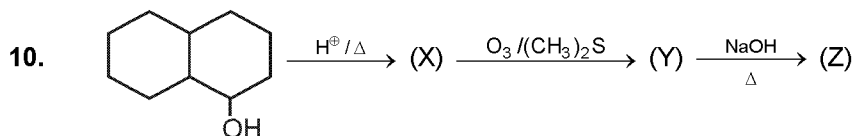
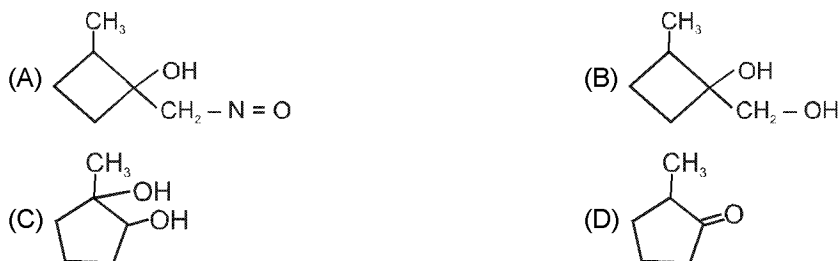
7. The compound (S) is :



8. The compound U is :



9. The compound W is :

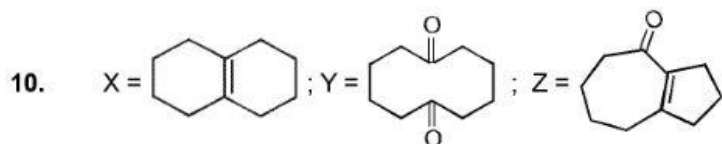


Identify X, Y and Z.

Answer Key

DPP No. # 32

1. (A) 2.* (AB) 3. (B) 4. (D) 5. (C)
 6. (D) 7. (C) 8. (B) 9. (D)



Hints & Solutions

DPP No. # 32

