

Questions with Answer Keys

MathonGo

Q1: 16 March (Shift 1) - Single Correct

Assertion A: Enol form of acetone

[CH₃COCH₃] exists in < 0.1% quantity. However, the enol form of acetyl acetone[CH₃COCH₂OCCH₃] exists in approximately 15% quantity.

Reason R : enol form of acetyl acetone is

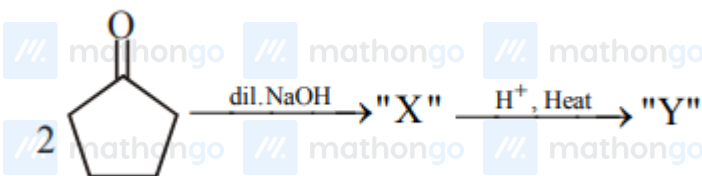
stabilized by intramolecular hydrogen bonding,

which is not possible in enol form of acetone.

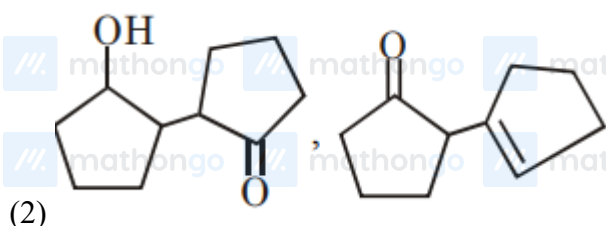
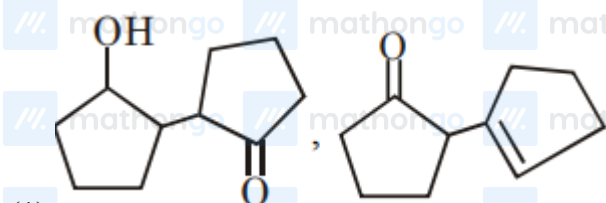
Choose the correct statement:

- (1) A is false but R is true
- (2) Both A and R are true and R is the correct explanation of A
- (3) Both A and R are true but R is not the correct explanation of A
- (4) A is true but R is false

Q2: 18 March (Shift 2) - Single Correct



Consider the above reaction, the product 'X' and 'Y' respectively are :



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Q3: 18 March (Shift 2) - Numerical

In Tollen's test for aldehyde, the overall number of electron(s) transferred to the Tollen's reagent formula $[\text{Ag}(\text{NH}_3)_2]^+$ per aldehyde group to form silver mirror is _____. (Round off to the Nearest integer)

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Answer Key

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Q1 (2)

Q2 (3)

Q3 (2)

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