

31. For aldol condensation the conditions necessary

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|------------------------|-----------------------|
| <u>A.</u> $\alpha$ -C  | <u>B.</u> $\alpha$ -H |
| <u>C.</u> Basic medium | <u>D.</u> All         |

**Answer:** Option D

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32. Aldehydes are reduced to

- |                                  |                                  |
|----------------------------------|----------------------------------|
| <u>A.</u> P <sup>o</sup> alcohol | <u>B.</u> S <sup>o</sup> alcohol |
| <u>C.</u> T <sup>o</sup> alcohol | <u>D.</u> Not possible           |

**Answer:** Option A

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33. Tetrahydroborate ion is the source of

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|----------------------|-----------------|
| <u>A.</u> proton     | <u>B.</u> $H^+$ |
| <u>C.</u> both a & b | <u>D.</u> $H^-$ |

**Answer:** Option D

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34. Which of the following is a symmetrical ketone

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|------------------------|-----------------------|
| <u>A.</u> 3 - hexanone | <u>B.</u> acetone     |
| <u>C.</u> butanone     | <u>D.</u> 2-pentanone |

**Answer:** Option B

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35. Dry distillation of calcium acetate results in the formation of

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|------------------------|------------------------|
| <u>A.</u> formaldehyde | <u>B.</u> acetaldehyde |
| <u>C.</u> methane      | <u>D.</u> acetone      |

**Answer:** Option D

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36. In base catalyzed reaction of carbonyl compound the catalyst

- A. increases the nucleophilic character of reagent
- B. increases electrophilic character of carbonyl compound
- C. acidic character of reagent
- D. both a and b

**Answer:** Option A

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37. Cannizaros reaction takes place through the transfer of \_\_\_\_\_ from complex anion.

- A. hydrogen ion
- B. hydride ion
- C. oxide ion
- D. methoxide ion

**Answer:** Option B

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38. Iodoform test can be used to distinguish between

- A. ethanol and methanol
- B. acetaldehyde and methanal
- C. acetone and diethyl ketone
- D. all of the above

**Answer:** Option D