

21. Which of the following will not give addition reaction with NaHSO_3

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| A. HCHO | B. CH_3CHO |
| C. $\text{CH}_3\text{-CH}_2\text{-CHO}$ | D. None of the above |

Answer: Option c

22. On heating aldehydes with Fehlings solution we get a precipitate whose colour is

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| A. pink | B. black |
| C. yellow | D. brick red |

Answer: Option D

23. Which of the following compounds has the empirical formula CH_2O and reacts with sodium hydroxide?

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| A. carbonic acid | B. ethanol |
| C. acetic acid | D. methanoic acid |

Answer: Option c

24. Aldehyde and ketone have same general formula for homologous series

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| A. $\text{C}_n\text{H}_{2n}\text{O}_{2n}$ | B. C_nH_{2n} |
| C. $\text{C}_n\text{H}_{2n}\text{O}$ | D. $\text{C}_n\text{H}_{2n}\text{O}_{n+1}$ |

Answer: Option C

25. Oxidation of primary alcohol gives

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| A. ketone | B. Aldehyde |
| C. Alkene then - COOH | D. Ester |

Answer: Option B

26. Ethanal is prepared industrially by air oxidation of ethylene using palladium chloride as catalyst and _____ as promoter

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| A. PdCl ₂ | B. Cu ₂ Cl ₂ |
| C. CuCl ₂ | D. PbCl ₂ |

Answer: Option c

27. Nucleophilic addition reactions are catalysed

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| A. Acid | B. Base |
| C. Both a and b | D. None |

Answer: Option c

28. Acetaldehyde cyanohydrin on acid hydrolysis yields

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|----------------------------------|-----------------------------------|
| A. Tartaric acid | B. Propanoic acid |
| C. Lactic acid | D. Valeric acid |

Answer: Option c

29. Acetal on acid hydrolysis generates

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| A. Alcohol | B. Ketone |
| C. Both a & b | D. None of the above |

Answer: Option c

30. Which one exhibits aldol condensation

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| A. HCHO | B. C ₆ H ₅ CHO |
| C. Cl ₃ CCHO | D. CH ₃ COCH ₃ |

Answer: Option D