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| **Organic Chemistry-II** |
| **QUIZ-2, B Pharm** |
| **Date:** Sunday,08/01/2023 **Total** **Marks:** 10 **Time:** 15 min  |
| **Student Name:** |  |
| **Student ID No.:** |  |

**Multiple choice** (**02 Marks**)

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| --- | --- |
|  | Which of the following does not have carbonyl group? |
|  | A. | Acetaminophen |
|  | B. | Phenol |
|  | C. | Dacron |
|  | D. | Citric acid |

|  |  |
| --- | --- |
|  | In 1H NMR of acetaldehyde, the methyl group protons signal appears at  |
|  | A. | δ 2.1 |
|  | B. | δ 2.2 |
|  | C. | δ 5 |
|  | D. | δ 10 |

**Fill in the blanks** (**03 Marks**)

1. Oxidation of primary alcohol gives -----------------------
2. Aliphatic aldehydes and ketones that have hydrogens on their gamma (γ) carbon atoms undergo a

 characteristic mass spectral cleavage is called -----------------------------

1. Aldehydes and unhindered ketones undergo a nucleophilic addition reaction with HCN to yield ------------.

**Short Answer questions**

1. Why aldehydes are generally more reactive than ketones in nucleophilic addition reactions? Explain your answer. (**02 Marks**)
2. Explain **Wittig reaction** with mechanism.

 (**3** **Marks**)