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| https://upload.wikimedia.org/wikipedia/commons/thumb/4/4e/VU_Logo.png/260px-VU_Logo.png | **Digital Logic Design (CS302)**  Assignment # 02  **Fall 2023** | **Total marks = 20**  **Deadline**  **15th of January 2024** |
| **Please carefully read the following instructions before attempting the assignment.**  **RULES FOR MARKING**  **It should be clear that your assignment would not get any credit if:**   * The assignment is submitted after the due date. * The submitted assignment does not open or the file is corrupt. * Strict action will be taken if the submitted solution is copied from any other student or the internet.   **You should consult the recommended books to clarify your concepts as handouts are not sufficient.**  **You are supposed to submit your assignment in Doc or Docx** **format.**  Any other formats like scan images, PDF, ZIP, RAR, PPT, BMP, etc. will not be accepted.  **Topic Covered:**   * Boolean Algebra and Logic Simplification * QuineMcCluskey Simplification Method | | |
| **NOTE**  No assignment will be accepted *after the due date via email in any case* (whether it is the case of load shedding or internet malfunctioning etc.). Hence refrain from uploading assignments in the last hour of the deadline. It is recommended to upload the solution at least two days before its closing date.  If you people find any mistake or confusion in the assignment (Question statement), please consult with your instructor before the deadline. After the deadline, no queries will be entertained in this regard.  **For any query, feel free to email me at:**  [**cs302@vu.edu.pk**](mailto:cs302@vu.edu.pk) | | |

**Question No 01** **Marks (20)**

Consider the below given canonical sum:

Find the prime implicants from given minterms using Quine-McCluskey simplification method.

Extract the simplified expression.

Note: Perform all steps of this method. In case of missing steps, marks will be deducted.