Class Test II October 2023
Sub: 3ETRC2 Digital Electronics

Time: 70 min   **Max Marks: 20**

Note: Attempt any four questions. All questions carry equal marks.

Q.1 Determine AND-NOR function of following function.
    $f(a,b,c,d) = \sum m(2,3,4,6,9,11,12,13)$ 5
Q.2   Design Excess-3 adder using 4-bit parallel adder 74LS83   5
+ Q.3   Design a truth table for 8 to 3 priority encoder.   5
Q.4   Design an 8-4-2-1 BCD to Excess-3 converter.   5
Q.5   Convert following SOP expression to POS form.
       $f(a,b,c,d) = A'B'C' + AB'C' + A'BC'$ 5