- D Prove that (TP ->R ) \ ( a \rightarrow P) = (PVQ YR) \ (PVTQ VR) \ (TPVQ VTR).
- 2) Find the PDNF of the Statement (QV(PNY)) AT(CPNY) NQ).
- 3) prove that the Statement "every positive integer in the Sum of the Squares of three integers" in false.
- 4) Using Generating function, solve the recurrence relation.

an-5 an-1 +6 an-2=0

Where NZ2, a0=0; a,=1

5) Use the method of generating function to Solve the recurrence relation.

an=3an-1+1; n=1 given that an=1

b) Find the number of integers between 1 and 250 both inclusive that are not divisible by the integers 2,3,5 & 7.

7) Solve:

S(K) - 5 S(K-1) + 6 S(K-2) = 2 with S(0) = 1, S(1) = -1.

Last clata: 17/9/24