TMC-104_Unit-4 Assignment-4

- 1. Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?
- 2. Out of 5 men and 2 women, a committee of 3 is to be formed. In how many ways can this be done so as to include (i) exactly one women (ii) at least one women.
- 3. In a group of 13 children, there must be at least two children who were born in the same month.
- 4. How many three-letter words can be formed using a,b,c,d,e if:
 - (1) repetition is not allowed
 - (2) repetition is allowed.
- 5. Use generating function to solve the recurrence relation

$$a_n - 9 \ a_{n-1} + 20 \ a_{n-2} = 0$$
, $a_0 = -3$ and $a_1 = -10$