## WANDOOR GANITHAM - S S L C UNIT TEST 2021

2.03AE MATHEMATICS OF CHANCE Total Score : 20

1. In a class there are 25 boys and 15 girls . One student is to be selected as leader .
a ) What is the probability that the class leader will be a girl ?
b ) What is the probability that the class leader will be a boy ?
2. Each letter of the word " MALAYALAM " is written on paper slips and put in a box . A slip is to be drawn from it .
a) What is the probability of getting the letter $A$ ?
b ) What is the probability of not getting the letter A ?
3. One is asked to say a three-digit number .
a ) How many three digit numbers are there ?
b) What is the probability of getting a multiple of 100 ?
4. A bag contains 15 white and 25 green beads. Take one bead from this
a ) What is the probability of getting a green bead ?
b ) What is the probability of getting a white bead?
c) How many more white beads are to be put in the box to make the probability of getting a green bead is $\frac{1}{2}$ ?
5. Numbers from 1 to 25 are written on slips of paper and put in a box . A slip is to be drawn from it .
a ) What is the probability that the number written in it is an even number ?
b ) What is the probability that the number written in it is an odd number ?
c) What is the probability that the number written in it is a perfect square ?
6. A bag contains 6 white and 9 blue balls. In another box there are 8 white and 12 blue balls . Take one ball from this
a ) What is the probability of getting a white ball from the first bag ?
b ) What is the probability of getting a white ball from the second bag ?
c ) If all the balls are put in a single bag, what is the probability of getting a white ball from it?
d) If all the balls are put in a single bag, the probability of getting a white ball is $a$ and probability of getting a blue ball is $b$, what is the relation connecting $a$ and $b$ ?
( hint : $a$ and $b$ are positive numbers )
7. One is asked to say a two -digit number .
a) How many two digit numbers are there ?
b) What is the probability of getting a multiple of 5 ?
c) What is the probability of getting a multiple of 10 ?
d) What is the probability of one of the digit being zero and the other being a prime ?
