WANDOOR GANITHAM - S S L C UNIT TEST 2021

2.03AE	MATHEMATICS OF CHANCE	Total Score : 20 Time:40 minutes
1. In a class there are 25 boys and 15 girls . One student is to be selected as leader .		
a) What is the pro	bability that the class leader will be a girl ?	
b) What is the probability that the class leader will be a boy ?		(2)
2. Each letter of the word " MALAYALAM " is written on paper slips and put in a box $.$		
A slip is to be draw	n from it .	
a) What is the probability of getting the letter A ?		
b) What is the probability of not getting the letter A?		(2)
3. One is asked to say a three -digit number .		
a) How many thre	e digit numbers are there ?	
b) What is the probability of getting a multiple of 100 ?		(2)
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 $\frac{1}{2}$?	(3)
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 ? (3)

- 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?

(4)

(4)