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

2.03BE	MATHEMATICS OF CHANCE	Total Score : 20 Time:40 minutes
<b>1.</b> A bag contains	12 red and 8 blue balls . Take one ball from this .	
a ) What is the p	probability of getting a red ball ?	
<b>b</b> ) What is the p	probability of getting a blue ball ?	(2)
2. Each letter of th	ne word " STATEMENT " is written on paper slips ar	nd put in a box .
A slip is to be dra	rawn from it .	
a ) What is the p	probability of getting the letter T ?	
b ) What is the p	probability of not getting the letter T?	(2)
3. One is asked to s	say a three -digit number .	
a ) How many th	hree digit numbers are there ?	
b) What is the p	probability of getting a multiple of 111 ?	(2)
4. A bag contains	40 mangoes and some oranges . Take one from this . T	'he probability
of getting a man	ngo is $\frac{4}{7}$ .	
a) How many fri	uits are there in the box ?	
b) What is the p	archability of getting an orange?	
c) If 15 mange	es are taken out from the boy what will be the probab	ility of gotting
on orange?	ts are taken out from the box , what will be the probab	(3)
T Numbers from 1	1 to 20 are switten an aline of paper and put in a have	( )
5. Numbers from 1	1 to 20 are written on sups of paper and put in a box .	A slip is to be
drawn from it .		
a ) What is the p	probability that the number written in it is a multiple of	2 ?
<b>b</b> ) What is the p	probability that the number written in it is a multiple of	3 ?
c ) What is the p	robability that the number written in it is a multiple of	6? (3)

- 6. A bag contains 10 white and 8 blue balls. In another box there are 15 white and12 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 x and probability of getting a blue ball is y, what is the value of x + y? (4)

7. One is asked to say a two -digit number .

- a) How many two digit numbers are there ?
- b) What is the smallest possible product of the digits ?
- c) What is the largest possible product of the digits ?
- d) What is the probability of the product of the digits being a prime ? (4)