MATHEMATICS PROJECT

CLASS: 10

SECTION: B

TOPIC: STATISTICS

SESSION: 2021 - 2022

(To be submitted on or before 15th July 2021)

1. Introduction about the earliest history of Estimation (Take reference of Rituparna in ancient Indian History of counting twigs on the branches of the tree and Greek historian Herodotus)
2. Give one Historical example to support your viewpoint in favour of the origin of Statistical Reasoning.
3. What is Aristotle's definition of Mean?
4. Which Country give rise to Theorem of Pappus? What are the three different types of mean this theorem correlates?
5. How would you define Median?
6. When was the idea of Median first evolved?
7. Who first used the term called Median?
8. When was the word *OGIVE* first used?
9. Give two uses of *OGIVE* in every day life, for example in architecture or applied physical engineering.
10. Why OGIVES are mostly used in Statistics?
11. The table below shows the distribution of the scores obtained by 120 shooters in a shooting competition. Using a graph sheet draw an ogive for the following distribution:

Scores Obtained	Number of shooters
0 - 10	5
10 - 20	9
20 - 30	16
30 - 40	22
40 - 50	26
50 - 60	18
60 - 70	11
70 - 80	6
80 - 90	4
90 - 100	3

Use your ogive to calculate:
  i.   The median
  ii. The interquartile range
  iii. The number of shooters who have scored more than 65% score but less than 87%.

12. What is the shape of the curve obtained?
13. Can you now conclude why the name of OGIVE was proposed?