Figures to the right indicate marks. 3. Log tables and graph papers will be supplied on request. 4. Q.1 Define a variate. a. (1) OR Define an attribute. a. (1) 1. The following data give the record of daily wages of 30 workers in a b. (7)factory. 127, 129, 131, 132, 122, 124, 112, 114, 137, 114, 126, 129, 124, 126, 134, 128, 121, 129, 135, 118, 132, 127, 119, 133, 131, 125, 134, 117, 116, 131 Prepare a frequency distribution, taking the class internal as 110 - 114, 115 - 119 .... etc. What is variate? What is length of the class interval? Prepare cumulative frequency less than type. 2. Explain rule's coefficient of Association. Interpret the value (7)Q = +1, -1, 0.3. Tabulate the following data. (7)The number of students in a college in the year 2001 was 510 of which 480 were boys and the rest girls. In 2004, the number of boys increased by 100% and that of girls by 300% as compared to their strength in 2001. In 2007, the total number of students in the college was 1200, the number of boys being double the number of girls. Q.2 a. Fill in the blank. 1. Mode can be located the graphically by .......... (1) OR 1. Median can be located graphically by ...... (1) 1. State with an example bar diagrams. **b**. (7)2. For the following data draw Histogram and cumulative frequency (7)curve less than type and estimate  $Q_1$  and  $Q_3$ . Class Interval 0 - 5 5 - 10 10 -15 | 15 - 20 | 15 - 20 | 20 - 25 | 25 - 30 | Frequency 4 8 12 17 7 17 2 3. Draw a suitable diagram to represent the following data relating to (7)the imports of five raw metals in 2007 by a small industry. (P.T.O.)

N.B.: 1.

2.

Attempt all questions.

Attempt any two subquestions from b part out three.

Q.3

Q.4

	Raw Metal Imports (in billion ₹. )	
	Aluminium 36 36 36 Aluminium	
	Copper 28 28 28 28 28 28 28 28 28 28 28 28 28	
	Iron per no believes 45 wavegag name has solded not	
	Zinc 28	
	Silver 35	
	NO SECTION OF THE PROPERTY OF	
Complete the sentence.		
a.	The sum of the deviations of x from their mean $\bar{x}$ is	(1)
2 po e e e e e	OR	4
a.	The median for the following set of values 10, 14, 7, 9, 4, 16	(1)
	is	
b.	1. The average weight of group of 25 boys was found to be 78.4 pounds.	(7)
	It was later discharged that one weight was misread as 63 pounds instead of 96 pounds. Calculate the correct average. Also calculate	
	the average leaving out the wrong value.	•
	and average leaving out the wrong variet.	
	2. Define the following:	(7)
	1. Geometric mean 2. Combined mean	
	3. Harmonic mean	
	3. Compare mean, median and mode.	(7)
	480 word boys and the cost gale in 2004, the number of boys in	
a.	What is primary data?	(1)
a.	OR What is secondary data?	
	What is secondary data:	(1)
Ъ.	1. Give a rough sketch of the 3 way table for attributes A, B, C.	(7)
	A - boys B - successful C - wearing glasses	(7)
	2. Draw a pie diagram to represent the following data showing the	(7)
	units of electricity to different classes of consumers during a month	
	by an electric supply company.	
	Consumer Class Percentage of units sold	
	Motive power 56	
	Light and Fans	
	Domestic Supply 13	
	Street Lighting 2	
	7 1 2 1 2 1 2 1 2 1 2 2 3 3 1 2 4 3 1 2 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	
	3. The median value of marks (out of 120) obtained by 65 students is	(7)
	53. it is later discovered 38 marks instead 83 months and and	

53. it is later discovered 38 marks instead 83 marks whereas marks of another student were recorded as 74 which he had actually scored