

15.	Compute Bowley's coefficient of skewness from the following data.						6	6	CO4
	Class	0 – 9	10 – 19	20 – 29	30 – 39	40 – 49			
	f	14	18	26	42	40	20		
16.	Define the term with example (i) Mutually exclusive events. (ii) Equally likely events. (iii) Exhaustive events.						6	2	CO5
17.	In a factory machines A and B are producing springs of the same type. Of this production, machine A and B produce 5% and 10% defective springs, respectively. Machines A and B produce 40% and 60% of the total output of the factory. One spring is selected at random and it is found to be defective. What is the possibility that this defective spring was produced by machine A?						6	3	CO5
18.	Assume that a factory has two machines. Past records show that machine I produces 30% of the items of output and machine II 70% of the items of output. Further, 5% of the items produced by machine I were defective and only 1% produced by machine II were defective. If a defective item is drawn at random, what is the probability that the defective item was produced by machine I?						6	4	CO5

Section C

Answer any 1 question. Each carries 10 marks. (1x10=10 marks)

No.	Question	M	BL	CO		
19.	Compute geometric mean of the following data:					
	Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
	No of students	25	16	13	10	6
20.	(i) Define conditional probability. (ii) From a survey it is found that the probability of selecting (i) A male or a smoker is $\frac{7}{10}$ (ii) A male smoker is $\frac{2}{5}$ and (iii) A male, if a smoker is already selected is $\frac{2}{3}$. Find the probability of selecting (a) A non - smoker (b) A male (c) A smoker, if a male is first selected.					
		10	4	CO5		
