CT Inst. of Engg.

Roll No.

Total No. of Pages: 2

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BBA (Sem.-3rd) BUSINESS STATISTICS

Subject Code: BB-304 (2007 to 2011 Batch)

Paper ID : [C0216]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains SIX questions carrying TEN marks each and students has to attempt any FOUR questions.

SECTION-A

1. Write briefly:

- a) State and Prove Additive law of probability.
- b) Discuss the properties of coefficient of correlation.
- c) Distinguish between Geometric and Harmonic mean.
- d) Why standard deviation is considered to be the best in comparison with other measures?
- e) State the empirical relation between mean, median and mode.
- f) What do you understand by Poisson distribution? What are its properties
- g) Write a note on mean deviation. How it is different from quart deviation?
- h) State subjective approach to probability.
- i) Write a note on independent and dependent events.
- j) Differentiate between correlation and regression.

SECTION-B

2. The following table gives the distribution of monthly income of 600 families in a certain city.

 Monthly Income
 No. of fa

 Below 75
 60

 75-150
 170

 150-225
 200

 225-300
 60

 300-375
 50

 375-450
 40

 450 and more
 20

Draw a 'less than' and a 'more than' ogive cu the same graph and from these find the median

3. From the following data calculate mode.

Variable (x):	0-10	10-20	20-30	30-40
Frequency (f):	5	6	8	12

 In a certain college, the students engage in var proportions.

Football (F)

: 60% of

Basketball (B)

: 50% of

Both Football and Basketball

: 30% of

If a student is selected at random, what is the

- i) Play football or basketball
- ii) Play neither sports?

Write regression equations of x on y and y on

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	x:	45	48	50	55	65	70	75		
	y :	25	30	35	30	40	50	45		

6. Fit a Poisson distribution to the following data frequencies.

neque	meres.				
x :	0	1	2	3	. 2
y:	123	59	14	3	

7. Calculate mean and standard deviation of the f

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Value :	90-99	80-89	70-79	60-69
Frequency	: 2	12	22	20

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