# Theoretical Questions Statistics

[B. Com II]

Q. Write short notes on =

1) Coefficient of determination
2) Probable Error & its utility
3) Standard Error of Estimate
4) Correlation & Causation
5) Spearman's Rank Correlation
6) Compound Events & Simple Events
7) Conditional Probability
8) Dependent & Independent Event
9) Equally likely & Mutually exclusive events
10) relation among Binomial, Poisson & normal distribution

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| 46 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 47 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 48 | 25 | 26 | 27 | 28 | 29 | 30 | |

08 Q What is Correlation. Explain the difference between Correlation & regression. Does Correlation always arise from Casual relationship between variables?

12 Q Explain types of Correlation. Also discuss various methods of studying Correlation

09 Q Define Correlation. Discuss its utility. State the properties of Karl Pearson's Coefficient of Correlation.

06 Q Explain the meaning & types of regression Analysis. Also discuss related between Correlation and regression.

THURSDAY 21
Wk 47 Day 325-040

Q Discuss the utility of regression Also state properties of Regression Coefficients.

Q Comment on utility of regression and discuss various methods of studying regression

Q Write a detailed note on significance of Probability with examples. Also discuss approaches/ Schools of thoughts of probability.

Q State and prove Addition & Multiplication theorem of probability (with suitable example

Q State and Prove Bayes Theorem.

22 FRIDAY

Day 326-039 Wk 47

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NOVEMBER '13

Q What is Binomial distribution. Discuss its properties. Also explain briefly the fitting of binomial distribution

Q What is the significance of Poisson distribution. Explain its ~~sol~~ properties.

Q Why normal distribution is important. Explain properties of normal distribution, under what condition normal distribution is a good approximation of Poisson distribution