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**MASTER OF BUSINESS ADMINISTRATION
(SCMFL)****Term-End Examination****December, 2011****MCQ-007 : QUANTITATIVE TECHNIQUE FOR
SUPPLY CHAIN-I***Time : 3 hours**Maximum Marks : 100**Note : Attempt any Five questions.*

1. From the frequency distribution given below, find 20
- mean,
 - median,
 - third quartile, and
 - mode.

Class Interval	50 - 52	53 - 55	56 - 58	59 - 61	62 - 64
frequencies	5	10	21	8	6

2. A distribution of 64 observations has a class 20
interval which remains the same over all the
classes. The mean of the squares of the step-
deviations of class mid- points from an assumed
mean is 185, with their mean as 11. Find the size
of the class interval if the standard deviation of
the distribution is 32.

3. From the distribution of 100 executives according to their annual total emoluments are given below, find **20**
- (a) moment coefficient of kurtosis, and
 (b) percentile coefficient of kurtosis.

Total emoluments (in Rs. lakh)	02-06	06-10	10-14	14-18	18-22	22-26	26-30
No. of executives	10	15	30	18	12	09	06

4. Define index number. State its various types. Which one do we construct more frequently, and why? **20**
5. (a) "Regression and correlation are two sides of the same coin." Explain **10+10**
 (b) Bring out the relationship between standard error of estimate and coefficient of correlation.
6. Write short note on the following : **10+10**
 (a) Two - tailed test and one - tailed test
 (b) Type - I and type II errors
7. (a) State and discuss the classical approach to define probability
 (b) Discuss three basic postulates of probability. **10+10**
8. Explain the following : **10+10**
 (a) Stratified random sampling
 (b) Cluster sampling