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MCN-006

MASTER OF BUSINESS ADMINISTRATION (MBACN)

Term-End Examination

June, 2013

MCN-006 : QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS

Time : 3 hours Maximum Marks : 100

Note : Answer **any five** questions. All questions carry **equal** marks.

- The radius of a cylinder is increasing at the rate of 2m/sec and its altitude is decreasing at the rate of 3m/sec. Find the rate of change of volume when the radius is 3 meters and the altitude is 5m.
- There are 4 hotels in a certain town. If 3 men 20 check in to hotels in a day, what is the probability that each checks in to a different hotel ?
- 3. How far can quantitative techniques be applied 20 in management decision-making ? Discuss, in detail with special reference to any functional area of management pointing out their limitation and why ?

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P.T.O.

- Calculate mean deviation from the median by the 20 short cut method in the following series : Marks secured by 15 students
 78, 72, 75, 73, 45, 49, 25, 71, 74, 42, 37, 32, 62, 61, and 43.
- Two yarns spun to the same count are tested for 20 their strength and the following results are obtained :

	Numbers	Sample	Sample
	in Sample	Mean	S.D.
Yarn A	9	42	7.5
Yarn B	4	50	6.5

Is the difference in mean strength significant?

6. Briefly comment on *any four* of the following : 5x4=20

- (a) Skewness means "Lack of Symmetry".
- (b) Correlation is a statistical tool which studies their relationship of two variables.
- (c) Sample space is the collection of all possible distinct outcomes of an experiment.
- (d) Simplest case of a continuous distribution is the uniform distribution.
- (e) Cluster or area sampling also has several disadvantages.

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- Distinguish between on any four of the following: 5x4=20
 - (a) Independent Events and Complementary Events
 - (b) Mean and Standard deviation
 - (c) Random Sampling and Non Random Sampling
 - (d) Coefficient of correlation and coefficient of determination
 - (e) Skewness and Kurtosis
- 8. Write short notes on *any four* of the following :

5x4=20

- (a) Scatter diagram
- (b) F-distribution
- (c) Degeneracy
- (d) Tabulation of data
- (e) Mutually Exclusive Events

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