

00980

MASTER OF BUSINESS ADMINISTRATION
(NETWORK INFRASTRUCTURE
MANAGEMENT)
(MBANIM)

Term-End Examination

June, 2013

MCR-010 : QUANTITATIVE ANALYSIS FOR
MANAGERIAL APPLICATIONS

Time : 3 hours

Maximum Marks : 100

Note : (i) Attempt *any five* questions.
(ii) All questions carry *equal* marks.

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1. (a) What is scope of quantitative analysis in business ? 10
 - (b) A man sells a TV at a gain of 5%. Had he sold it for Rs.490 less, he would have lost 2%. What is the cost price of the TV ? 10
 2. (a) What is Geometric Progression ? Give examples of its application. 10
 - (b) A man borrows Rs.1000 and agrees to repay with total interest of Rs.140 in 12 instalments, each instalment being less than preceding by Rs.10. What should be his 1st instalment ? 10

3. In a group of 1000 persons, 760 can speak Hindi and 430 can speak Punjabi.
- (a) How many can speak both Hindi and Punjabi ? 6
- (b) How many can speak Hindi only ? 7
- (c) How many can speak Punjabi only ? 7

4. (a) What is objective of an average ? What are the requisite of an ideal average ? 10
- (b) Calculate arithmetic mean of following data : 10

Marks More Than	0	10	20	30	40	50	60
No of Students	180	170	150	120	70	30	0

5. (a) Differentiate between : 10
- (i) Prior Approach probability and Posterior Approach probability
- (ii) Independent event and mutually exclusive event.
- (b) What is the probability of getting 53 Mondays in a leap year 10
6. (a) What is difference between Probability Sampling and Non-probability Sampling with examples. 7

- (b) Differentiate between Stratified random sampling and Judgement sampling 7
- (c) Significance of Null and Alternate Hypothesis 6
7. (a) What is meaning of correlation and its uses ? 10
- (b) From the following data, calculate co-variance. 10

X	Y
1	10
2	20
3	30
4	50
5	40

8. Write short notes on *any four* : 4x5=20
- (a) Decision Theory
- (b) Testing of Hypothesis
- (c) Chi square test
- (d) Time series analysis
- (e) Discrete probability distribution
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