JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MBA-I Semester Supplementary Examinations July 2010
RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS

Time: 3hours   Max.Marks:60

Answer any Five questions
All questions carry equal Marks

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1.   Explain nature and importance of Research and explain in detail various types of Research.

2.   Explain different methods for attitude measurement.

3.   Differentiate Population Vs Sampling and explain different methods of sampling.

4.a)   In an industrial establishment the coefficients of Variation of Wages of male and female workers were 55% and 70% respectively. The standard deviations were Rs. 22 and Rs. 15.40 respectively. Calculate the combined average wages of all workers if 80% of the workers were male.

  b)   Define Skewness and explain different types of skewness and difference between Dispersion and skewness.

5.a)   Explain components of Time series
  b)   Fit a straight line equation by the method of least squares and estimate trend values.

Year	2001	2002	2003	2004	2005	2006	2007	2008
Production	80	90	92	83	94	99	92	104

6.a)   Define Index numbers and explain their characteristics and uses.
  b)   Calculate Fisher's ideal index number and check whether it satisfies both factor reversal and time reversal test from the following data,

Commodities	Base year		Current year	
	Price	Quantity	Price	Quantity
A	10	5	15	4
B	12	6	16	3
C	8	9	10	5
D	6	3	9	3

7.   Eight pots growing Barley plants were exposed to a high tension discharge, while nine similar pots were enclosed in a earthed wire cage. The number of tillers in each pot were as follows,

Caged:	17	27	18	25	27	29	27	23	17
Electrified	16	16	20	16	20	17	25	21	-

Find out whether Electrification exercises any real effect on tilling.

8.   The number of arrivals of ships per day at a port is as given below,

No of Arrivals	0	1	2	3	4	5	6	7	8	9	10
No of Days	20	53	80	83	64	34	18	8	3	1	1

Fit a Poisson distribution to the above test the goodness of fit by Chi-square test.

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