

Code No:21003

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MBA-I Semester Supplementary Examinations July 2010

RESEARCH METHODOLOGY AND STATISTICAL TOOLS

Time: 3hours

Max.Marks:60

Answer any Five questions
All questions carry equal Marks

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1. What is pure research and what is applied research? How do they complement and differ from each other?
2. What are the various methods of collecting primary data? What are the advantages and disadvantages associated with each?
3. What is the concept of reliability and validity of a scale? What other criteria the scale should fulfill?
4. What are the requirements of a good average? Compare the mean, mode and the median in the light of these requirements.
5. Determine the least square regression line of
 - (a) y on x
 - (b) x on y
 - (c) Find the correlation coefficient r using the regression coefficients
 - (d) Find y(8)
 - (e) Find x(16).
6. A random sample of 10 boys had the following I.Q's
70, 120, 110, 101, 88, 83, 95, 98, 107 and 100.
Does this data support the assumption of a population mean I.Q of 100.
7. The western natural Gas Company has supplied 18,20,21,25 and 26 billion cubic feet of gas, respectively, for the years 1988 to 1992.
 - a) Find the linear estimation equation that best describes these data.
 - b) Calculate the percent of trend for these data.
 - c) Calculate the relative cyclical residual for these data.
 - d) In which years does the largest fluctuation from trend occur, and is it the same for both methods.
8. 'Research Report is the culmination of social science research'. Comment on the statement underlining the primary nature of research report.