

M.B.A. I Semester Regular Examinations, January 2009
RESEARCH METHODOLOGY AND STATISTICAL TOOLS

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Time: 3 hours

Max Marks: 60

Answer any FIVE Questions
All Questions carry equal marks

1. What is the nature of exploratory research? How does it differ from other form of research?
2. What is the importance of tabulation in presenting and analysis of data? What are the aspects to be taken into account for good tabulation?
3. Develop a Likert Scale for measuring the attitude of students toward the internet as a source of general information.
4. Given the following data calculate the arithmetic mean.

X	462	480	498	516	534	552	570	588	606	625
f	98	75	56	42	30	21	15	11	6	2

5. 10 observations on price x and supply y the following data were obtained. $\Sigma x=130$, $\Sigma y=220$, $\Sigma x^2=2288$, $\Sigma y^2=5506$ and $\Sigma xy=3467$. Obtain the line of regression of y on x and estimate the supply when the price is 16 units and also find the standard error of estimate.
6. Five measurements of the tar content of a certain kind of cigarette yielded 14.5, 14.2, 14.4, 14.3 and 14.6 mg per cigarette. Show that the difference between the mean of this sample $\bar{x} = 14.4$, and the average tar claimed by the manufacturer $\mu=14.0$ is significant at $\alpha =0.05$.
7. The prices of a commodity during 1993-1998 are given below. Fit a parabola $y=a+bx+cx^2$ to these data. Estimate the price of the commodity for the year 1999. Also plot the actual and trend values on the graph.

Year:	1993	1994	1995	1996	1997	1998
Prices:	100	107	128	140	181	192

8. What is a review of literature and what purpose does its inclusion serve in research report?
