

**University of Pune**  
**Department of Management Sciences**  
**MBA-BT Semester I**  
**Mid-Sem Back log Exams September 2013**

**202-Research Methodology and Biostatistics**

**Maximum Marks: 40**

**Time: 2Hrs**

- 1) **N.B. (1) All questions are compulsory.**  
**(2) All questions carry equal Marks.**  
**(3) Use of simple calculators is allowed.**

Q.1—Attempt any two of the following-----

- a) Explain the following types of Research---(Give one illustration each )
- b) Applied Research and Diagnostic Research.
- c) Write about Secondary sources of data collection.
- d) What is Interview Method?

Q.2---Attempt any two of the following-----

- a) Distinguish between: Random and Non Random Sampling.
- b) Write about Stratified Random Sampling.
- c) What is Two Stage Non Sampling?

Q.3 Attempt any two of the following-----

- a) Explain –Fixed Sum Scale and Ratio-Scale.
- b) Illustrate Likert Scale for knowing working of Cells at PUMBA.
- c) Find out Arithmetic mean & Mode.

Marks	0-10	10-20	20-30	30-40	40-50
Frequency	10	13	15	7	5

Q-4 Attempt any two of the following-----

- a) Find out Rank Correlation Coefficient-----

X	40	35	60	35	23	17	19	20
Y	45	38	55	22	25	21	22	33

- b) Find out Standard Deviation-----

X	0-8	8-16	16-24	24-32	32-40	40-48
Frequency.	4	5	9	7	3	2

- C) Draw More than Cumulative Frequency Curve & locate Median-----

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Freq.	8	10	20	30	40	30	17