

## SECTION:2

Que.3

Give names of different Probability Sampling Methods and explain any two in detail.

(17)

O.R

Write short note:

(17)

1. Lipstin's nine rules for Non sampling error.
2. Properties of good sample

Que.4

What is mean by Business Forecasting? Mention it's main uses and explain types of Business forecasting.

(18)

O.R

(a) Fit a straight line, estimate number of units for the year 2000. (9)

Year	1990	1992	1994	1996	1998
No. Of units	12	4	6	11	8

(b) By using Method of exponential smoothing and taking  $\alpha = 0.4$  and initial forecast as 100 determine the production forecast for different years.

(9)

Year	2010	2011	2012	2013	2014
Production (in units)	120	132	145	161	186

(2)