

## SECTION:2

**Que.3**

**Give names of different Probability Sampling Methods and (17)**  
**and explain any two in detail.**

**O.R**

**Write short note: (17)**

**1. Sampling & Non sampling error**

**2. Parameter & statistic**

**Que.4**

**What is mean by Business Forecasting? Explain Methods of (18)**  
**forecasting. .**

**O.R**

**(a) What is mean by Analysis of time series? Explain Long term (9)**  
**variation (secular trend) with proper illustration.**

**(b) By using Method of exponential smoothing and taking  $\alpha = 0.4$  (9)**  
**and initial forecast as 100 determine the production forecast for**  
**different years.**

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

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