

Vidya Vikas Mandal's  
Shree Damodar College of Commerce & Economics, Margao  
M.Com. (Semester I) Semester End Examination, February 2022  
COC122: Business Statistics and Research Methodology (OA-18A)

**Duration: 3 hours**

**Max. Marks 60**

**Instructions:**

1. This paper consists of **Nine** Questions carrying **Equal** marks.
2. Question No.1 consists of **5 Compulsory** Questions of **2 Marks Each**.
3. Answer any **5** questions from Question **2,3,4,5,6,7,8 and 9**.
4. **Each** question carries **10** marks. Figures to the **right** indicate marks.

**Q.1) Answer the following:**

**(5x2=10)**

- a) Explain the objectives of hypothesis
- b) State how sample is different from population
- c) Write a brief note on Research Gap
- d) What you mean by non-parametric test?
- e) Explain Skewness and Kurtosis

**Q.2) Write short note on:**

- a) Structural Equation Modelling
- b) ANNOVA

**(5)**

**(5)**

**Q.3)** 'Research is a systematic and logical study of an issue or a problem or a phenomenon through scientific approach'. In light of this statement enumerate various steps in the process of research. **(10)**

**Q.4)** Explain plagiarism, fabrication and falsification in context of research. **(10)**

**Q.5)** Write a note on various measurement scales used in research. **(10)**

**Q.6)** Calculate Correlation coefficient for the following data

Price:	5	8	9	10	15	12	13	16	14
Demand:	55	50	52	45	40	42	41	43	46

**(10)**

**Q.7)** A stenographer claims that she can take dictation at the rate of 115 words per minute. Can we reject her claim on the basis of 100 trail in which she demonstrates a mean of 112 words with a standard deviation of 15 words? Use 5% level of significance. **(10)**

**Q.8)** Below given are the figures of production (in million tonnes) of a sugar factory.

Year	2005	2006	2007	2008	2009	2010	2011
Production (million tonnes)	80	90	92	83	94	99	92

- (I) Calculate Regression coefficient (10)  
(II) Fit a straight-line trend to these figures.

**Q.9)** What is a research report? Discuss the format of a research report. (10)

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**END**