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) What is hypothesis?

(b) State any two importance of literature review

(c) What is Skewness?

(d) State the features of parametric test

(e) Write a note on normal probability distribution

Q.2) What is Descriptive Statistics? Discuss its importance in research.　　　　**(10)**

Q.3) What is Sampling? Discuss various sampling methods.　　　　**(10)**

Q.4) Explain Exploratory and Confirmatory Factor Analysis with suitable examples.　**(10)**

Q.5) From the following data find correlation coefficient.

Price (Rs)	10	12	11	09	13	15
Supply (Kg)	20	22	25	23	30	32

　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　(10)

Q.6) What is questionnaire? How to develop a research questionnaire?　　　　**(10)**

Q.7) It is claimed that a random sample of 75 tyres with a mean life of 15,200 kms is drawn from a population of tyres which has a mean life of 15,150 kms and a standard deviation of 1200 kms. Test the validity of the claim at 5% level of significance.　　　　**(10)**

Q.8) Explain different types of research reports.　　　　**(10)**

Q.9) Discuss the steps involved in Structural Equation Modelling.　　　　**(10)**

END