

6. Describe Lickert or Thurston type of scale.
7. Write short notes on :
- Discriminant Analysis
 - Factor Analysis
8. Four flavours of a chocolate to be introduced are tested in five markets; the acceptance scores are as follows:

| | | Flavours | | | |
|---------|----------------|----------------|----------------|----------------|----------------|
| | | F ₁ | F ₂ | F ₃ | F ₄ |
| Markets | M ₁ | 7 | 4 | 8 | 16 |
| | M ₂ | 8 | 10 | 6 | 15 |
| | M ₃ | 8 | 12 | 18 | 13 |
| | M ₄ | 10 | 11 | 12 | 9 |
| | M ₅ | 12 | 9 | 16 | 12 |

Test at 5 percent whether the flavours are equally acceptable in the market ? (Perform one way ANOVA analysis) $F(0.05) \text{ for } (3,16) = 3.24$

Time allowed : 3 hours]

[Maximum marks : 70

Note : Attempt any **five** questions. All questions carry **equal** marks.

- Discuss as to how research can be helpful in business/management ?
- What is a research design ? Very briefly describe the three types of research designs : Exploratory, Descriptive and Experimental.
- Explain the process of problem identification and formulation in research.
- Differentiate between primary data and the secondary data. Describe the precautions to be observed while using secondary data.
- What are the advantages of collecting data through sampling ? Very briefly describe various probability sampling methods.