

AA-3377
M. Phil. Examination
April / May – 2003
Paper - I : Accountancy
(Research Methodology)

Seat No. _____

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Attempt **all** questions.
(2) All questions carry **equal** marks.

- 1** Define 'Research'. Describe its different types. Evaluate them in terms of degree of control and manipulation involved in them. **25**

OR

- 1** (a) Distinguish : Basic Research and Applied Research. **12**
(b) What is Exploratory Research Design ? – Write its sources. **13**
- 2** (a) Discuss 'Structured–Undisguised' category of questionnaires, elaborating on the forms of questions included therein. **12**
(b) What precautions should be taken while using primary and secondary data. **13**

OR

- 2** (a) Distinguish Interval Scale and Ratio Scale. **12**
(b) A bulk purchaser of articles wants to estimate the average purchase volume for each batch. He wants to be 95% confident. The allowable error is ± 0.24 . The standard deviation is 2.85. Determine the sample size. **13**

- 3 (a) The following three types of industrial products are manufactured in a country : **13**

- (1) Electrical and Electronics goods
- (2) Chemicals
- (3) Textiles.

Construct the index of industrial production and index of industrial prices.

- (b) The following is the information on likes-dislikes about Hero-Honda bike across different age groups : **12**

	Age Group			Total
	Below 20	20-39	40-59	
Liked	125	420	60	605
Disliked	75	220	100	395
Total	200	640	160	1000

Can we conclude that the scooter model appeal is independent of age groups ?

$$\left[\chi^2_{2, .05} = 5.991 \quad \chi^2_{3, .05} = 7.82 \quad \chi^2_{4, .05} = 9.49 \right]$$

OR

- 3 (a) Describe the methods that you would use to analyse the changes in the market price of the shares of a company, which changes on every trading day. **12**

- (b) Interpret the following Multiple Linear Regression output : **13**

Dependent variable : Salary

Predictor	Coefficient	St. dev.	t-value	p-value
Constant	6.2485	0.2915	21.44	0.000
Months	0.22707	0.01612	14.09	0.000
Gender	-0.7890	0.2384	-3.31	0.016

$$R-Sq = 97.4\% \quad S = 0.3530 \quad d = 1.28 \quad F = 111.56$$

- 4** (a) State giving reasons, an appropriate measure of central tendency to be used in following situations : **12**
- (1) To determine the average size of the shoes sold in the shop
 - (2) To determine the average wages in the industrial unit.
- (b) Write the uses of t-test. **13**

OR

- 4** Write notes on : (any **three**) **25**
- (1) Run Test
 - (2) Factor Analysis
 - (3) Discriminant Analysis
 - (4) Stratified Random Sampling
 - (5) Bivariate Analytical Measures.
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