



ANNA UNIVERSITY COIMBATORE

COIMBATORE – 641 047

Ph.D./M.Tech.(By Research) COURSE WORK EXAMINATIONS

Max.Marks: 100

Duartion: 3 Hrs

NAME OF THE SUBJECT

Answer the following

1. a) Explain in detail on the collection of data using questionnaires and schedules (10)
b) Discuss on the selection of appropriate method for data collection (10)
(or)
2. a) Describe on the important measures of central tendency pointing out the situation (10)
when one measure is considered relatively appropriate in comparison to other
measures
b) Write notes on the decision making under certainty and uncertainty (10)
3. Describe briefly the commonly used sampling distributions (20)
(or)
4. a) Annual incomes of 900 salesman employed by John-Wrights Group is known to be
approximately normally distributed. If the group wants to be 95% confident that the true
mean of this year's salesmen's income does not differ by more than 2% of the last year's
mean income of Rs.12000, what sample size would be required assuming the population
standard deviation to be Rs.1500? (10)
b) Discuss in detail on the various types of estimates. (10)
5. The procedure of testing hypothesis requires a researcher to adopt several steps.
Describe in detail on all such steps. (20)
(or)
6. Result of throwing die were recorded as follows: (20)
Number falling upwards: 1 2 3 4 5 6
Frequency: 27 33 31 29 30 24
Is the die unbiased? Complete the distribution on the basis of Chi-square test.
7. Briefly describe the important non-parametric tests used in context of testing
hypothesis. How such tests differ from parametric tests? Explain. (20)
(or)
8. Write short notes on i) Friedman ANOVA ii) Mcnemar test iii) Median Test (20)
9. With suitable case study, explain the concept of Multiple regression analysis. (20)
(or)
10. a) State the importance of correlation analysis. (10)
b) Discuss in detail on the application of statistical packages (10)