TITLE OF RESEARCH (FONT SIZE 24 ARIAL)

Year

ASSINGMENT –III RM 2015 For the Degree of

Doctor of Philosophy In SUBJECT

Submitted

to



MEWAR UNIVERSITY GANGRAR, CHITTORGARH (RAJASTHAN) (FONT SIZE 22 ARIAL)

Research Supervisor: Scholar: Dr. Research Name

MEWAR UNIVERSITY PhD Course Work Research Methodology ASSIGNMENT- III

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- Q.1 (a) Explain the meaning and significance of the concept of "Standard Error' in sampling analysis.
 - (c) Describe briefly the commonly used sampling distributions.
- Q.2 Distinguish between the following:
 - Statistic and parameter;
 - Confidence level and significance level;
 - Random sampling and non- random
 - sampling; Sampling of attributes and sampling of variables.
- Q.3 (a) What are the different approaches of determining a sample size? Explain.

(b) If we want to draw a simple random sample from a population of 4000 items, how large a sample do we need to draw if we desire to estimate the per cent defective within 2 % of the true value with 95.45% probability.

- Q.4 Suppose a certain hotel management is interested in determining the percentage of the hotel's guests who stay for more than 3 days. The reservation manager wants to be 95 per cent confident that the percentage has been estimated to be within \pm 3% of the true value. What is the most conservative sample size needed for this problem?
- Q.5 Distinguish between the following:
 - Directional and Non Directional Hypothesis;
 - Null hypothesis and alternative hypothesis;
 - One-tailed test and twotailed test;
 - Type I error and Type II error.
- Q. 6 (a) What do you mean by the power of a hypothesis test? How can it be measured? Describe and illustrate by an example.
 - (b) Clearly explain how will you test the equality of variances of two normal populations?
- Q. 7 Briefly describe the important parametric tests used in context of testing hypotheses. How such tests differ from non-parametric

tests?Explain.

- Q. 8 (a) Point out the important limitations of tests of hypotheses. What precaution the researcher must take while drawing inferences as per the results of the said tests?
 - (b) What is a t-test? When it is used and for what purpose(s)? Explain by means of examples.
- Q.9 (a) Write a brief note on t-test.
 - (b) What is Chi-square test? Explain its significance in statistical analysis.
- Q. 10 Write short notes on the following:
 - Additive property of Chi-square;
 - Chi-square as a test of 'goodness of fit';
 - Precautions in applying Chisquare test; Conditions for applying
 - Chi-square test.

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