



**Post Graduate Diploma in Agricultural Extension Management  
(PGDAEM)**

**Final examination , I semester 2014-15 ( July 2015)**

**AEM 105: Research Methods in Agricultural Extension (2 credits)**

**Maximum Marks- 70**

**Duration- 2 ½ hours**

**ANSWER ANY FIVE QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS**

1. What is a report ? As an extension officer while reporting, what broad sequence of contents would you follow in preparing a comprehensive research report ? Explain them.
2. As an extension researcher what measures could you use to carry out relationship between two variables?
3. Write short notes on **any four** of the following (all the questions carry equal marks):
  - a. Probabilistic sampling procedures
  - b. Properties of good estimator
  - c. Points to be taken care while collecting data
  - d. Multivariate analysis
  - e. Why we should develop theoretical orientation
  - f. Criteria of good problem statement
4. What do you mean by measurement and discuss various levels of measurement used in extension research ?
5. What do you understand about case study method ? Illustrate the steps followed in case study research.
6. In how many ways can the variables be classified in extension research ? Describe them along with examples.
7. How does the research proceed through various steps ? Explain various types of research followed in social sciences.
8. Write short notes on **any two** of the following :
  - a. Procedure for hypothesis testing
  - b. Validity and Reliability
  - c. Purpose of Literature review
  - d. Types of Research designs

\*\*\*\*\*



January, 2015

**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)  
Supplementary Examinations of 2007-08 to 2012-13**

**AEM 105 - Research Methods in Agricultural Extension (3 credits)**

**Max. Marks-70**

**Duration - 2 ½ hrs.**

**ANSWER ANY 5 QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS**

1. Define 'Research'. Briefly explain the types of research followed in Social Sciences.
2. Write short notes **on any four** of the following:
  - a. Sampling error
  - b. Primary data
  - c. Action research
  - d. Quota sampling
  - e. Explorative case study
  - f. Stratified Random Sampling
3. As an extension-research worker, how do you finalize a research problem and set research objectives? Explain with an example and write three objectives for an identified research problem.
4. Write short notes on any two of the following:
  - a. Research Hypothesis and its relevance in research with examples.
  - b. Review of literature – how it facilitates deciding research problem and objectives.
  - c. Steps to be considered while formulating a questionnaire / interview schedule.
  - d. Qualitative and quantitative data with examples.
5. List out the different research designs used in Agricultural Extension. Explain the use of Ex-post facto research design for assessing the impact of high yielding varieties in your jurisdiction.
6. What is the difference between qualitative and quantitative research? How is Non Parametrical statistics useful in Qualitative Research of Agricultural Extension?
7. How do you draw the sample from the population? Define sampling and describe one each of the probability sampling methods and non -probability methods.
8. Explain the difference between primary and secondary data? How is the primary data collected and used for preparing Strategic Research and Extension Plan (SREP) of an ATMA district?

\*\*\*\*\*

**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)****2nd Semester 2013-14 Term End Examinations &  
Supplementary Examinations of 2007-08 to 2012-13  
AEM- 105: Research Methods in Agricultural Extension  
(2 credits)**

ANSWER ANY 5 QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS

1. Define 'Research'. Briefly explain the types of research followed in Social Sciences.
2. As an extension-research worker, how do you finalize a research problem and set research objectives? Explain with an example and write three objectives for an identified research problem.
3. Write short notes **on any four** of the following.
  - a. Variable
  - b. Hypothesis
  - c. Key features of literature review
  - d. Sample size
  - e. Sampling error
  - f. Data collection methods
4. What is research design and explain different types of research design in brief.
5. Differentiate **any two** of the following:
  - a. Dependent Vs Independent variable
  - b. Qualitative Vs Quantitative variable
  - c. Ex-post Facto research design Vs Before-After experimental research design
  - d. Questionnaire Vs Interview Schedule
  - e. Primary data Vs Secondary data
6. How do you draw the sample from the population? Define sampling and describe one each of the probability sampling methods and non -probability methods.
7. How do you analyze the research data? Write briefly on univariate analysis, bivariate analysis and multivariate analysis.
8. How do you prepare Comprehensive Research Report, Research Articles and Summary Reports? Indicate the important components / parts to be included in the above mentioned reports.

\*\*\*\*\*



**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)  
EXAMINATION – July, 2014**

**Course No. 105: Research Methods in Agricultural Extension  
[2 Credits]**

**Maximum Marks: 70**

**Duration: 2 ½ hrs.**

Answer any 5 Questions: All questions carry equal marks

1. Discuss the importance of Research Methodology and explain different types of Research?
2. How do you prioritize the Research Problem and set a Research Objectives. Explain with an example?
3. Write short notes on:
  - a. Dependent Variable
  - b. Independent Variable
  - c. Hypothesis
  - d. Research Design
4.
  - a. Discuss the sampling procedures followed in Extension Research?
  - b. Define the Reliability and Validity of Measurement?
5.
  - a. Differentiate among Data, Information, Knowledge and Wisdom?
  - b. Differentiate between Qualitative and Quantitative Data?
6. Discuss the Primary and Secondary Data collection methods adopted in SREP preparation?
7. How do you prepare Research Report. Explain different forms of Research Report?
8. Write short notes on:
  - a. Univariate Analysis
  - b. Bi-variate Analysis

\*\*\*\*\*



**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)  
SUPPLEMENTARY EXAMINATION - 2012– 13  
BATCH JANUARY 2014**

**Course No.105 : RESEARCH METHODS IN AGRICULTURAL EXTENSION  
[2 Credits]**

Maximum Marks :70

Duration :2 ½ hrs

Answer any 5 Questions: All questions carry equal marks

1. Science including Extension Education, a branch of social sciences needs to empirically prove the facts of nature / society to understand the unknown in the Universe. In this context, how does a researcher proceed to conduct research and describe the types of research to understand the Universe with objectivity ?
2. Write short notes on any two of the following:
  - a. why a research hypothesis and its relevance in research with examples ?
  - b. Research designs used in social science research.
  - c. How does review of literature facilitate in deciding research problem & objectives ?
  - d. What steps are considered while formulating a questionnaire / interview schedule ?
3. As a social science researcher, how would you select a research problem and describe different variables used in our research with examples if necessary ?
4. In social science research 'sample' is the key to draw meaningful inferences what do you understand by sampling and discuss different types of sampling designs with examples ?
5. Social science researchers often use "case study" methods. Describe the different steps involved in case study method to have an in-depth study of an event ?
6. In a scientific research, the research report facilitates to continue further research in the area of study. In view of this, what do you understand by 'research report' and discuss briefly the general logical framework while preparing research report ?
7. Discuss briefly on any two of the following.
  - a. Levels of measurement
  - b. Statistical tools used in social science research
  - c. Qualitative and quantitative data with examples.
  - d. General format followed while writing references / bibliography with examples.
8. What do you understand by research objectives and briefly describe 'SMART' a tool used to evaluate the objectives of the research problem ?



**Post Graduate Diploma in Agricultural Extension Management  
(PGDAEM) SPECIAL SUPPLEMENTARY EXAMINATION – DECEMBER 2013  
Course No.105 :Research Methods in Agricultural Extension  
[2 Credits]**

Maximum Marks :70 Duration :2 ½ hrs Answer any 5 Questions: All questions carry equal marks

1. Define Research methodology and explain its importance in the development context .
2. What is research design and explain different types of research designs in brief.
3. Write short notes on three of the following
  - a. Sampling error
  - b. Primary data
  - c. Co efficient of correlation
  - d. Action research
  - e. Quota sampling
4. What is variable? Describe different types of variables with examples.
5. Differentiate any of three of the following:
  - a. Fundamental research Vs Applies research
  - b. Illustrative case study Vs Exploratory case study
  - c. Primary data Vs Secondary data
  - d. Internal validity Vs External validity
6. What is social survey and explain about types of social surveys
7. Write about case study as a training method.
8. Define sampling and describe different probability sampling methods.

\*\*\*\*\*



**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)  
Final Examination (February 2010)**

**Course 105: Research Methods in Agricultural Extension (2 Credits)**

**Maximum Marks: 70**

**Duration: 2 ½ hrs**

**Answer any five questions. All questions carry equal marks**

1. What is meant by "Social Survey?" Enlist the steps involved in conducting Social Survey.
2. Explain the essential steps to be followed for conducting the research for agricultural extension with the help of an example.
3. What do you understand by 'Sampling'? Discuss different types of sampling methods used in Agricultural Extension with suitable examples?
4. "Case studies are the important tools used in Agricultural Extension"? Explain how a Case - study can be developed by using different steps?
5. "Research reports are used as important feedback mechanism by Administrators and Policy makers". Explain the different steps to be followed in preparation of a good Research report?
6. Write short notes on any three of the following
  - a. Benefits of social research
  - b. Explorative case study
  - c. Participatory Research
  - d. Types of variables
  - e. Stratified Random Sampling
7. Explain the difference between primary and secondary data? How the primary data is collected and used for preparing Strategic Research and Extension Plan (SREP) of an ATMA district.
8. List out the different research designs used in Agricultural Extension. Explain the use of Ex-post facto research design for assessing the impact of high yielding varieties in your jurisdictions.

\*\*\*\*\*



**AEM-105 (R)**

**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)  
Final Examination, First Semester 2008-09 (August 2009)**

**Course 105: Research Methods in Agricultural Extension (2 Credits)**

**Maximum Marks: 70**

**Duration: 2 ½ hrs**

**Answer any five questions. All questions carry equal marks.**

1. List the research designs used in Agricultural Extension. Explain the use of Ex-post facto research design for assessing the impact of high yielding varieties.
2. What is hypothesis? What are the different types of hypothesis? Discuss any one of them.
3. What do you understand by 'Sampling'? Discuss different types of sampling methods used in Agricultural Extension with suitable examples?
4. What does "Social Survey" mean? Explain the process involved in conducting Social Survey.
5. Write short notes on any three of the following
  - \* Benefits of social research
  - \* Explorative case study
  - \* Participatory Research
  - \* Types of variables
  - \* Stratified Random Sampling
6. Explain the difference between primary and secondary data? How the primary data is collected and used for preparing Strategic Research and Extension Plan (SREP).
7. "Case studies are the important tools used in Agricultural Extension" Explain the steps involved in preparation of a good case study.
8. Explain briefly the steps involved in preparation of a research report for the use of administrators and policy makers.

\*\*\*\*\*





**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)  
Final Examination (August 2010)**

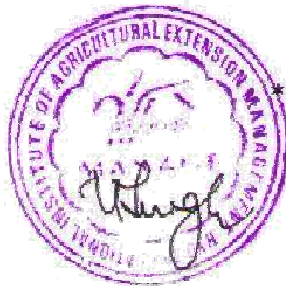
**AEM-105: Research Methods in Agricultural Extension (2 Credits)**

**Maximum Marks: 70**

**Duration: 2 ½ hrs**

**Answer any five questions. All questions carry equal marks**

- 1. Discuss various sampling methods for collection of yield data of a High yielding variety.**
- 2. Discuss the primary and secondary data collection methods adopted in SREP preparation.**
- 3. Write short notes on the following**
  - a. Differentiate between adaptive research and action research with an example.**
  - b. Null Hypothesis**
  - c. Dependent and independent variables with examples.**
- 4. How do you identify a good topic for research in extension? Discuss with an example.**
- 5. List the different experimental designs in Agricultural Extension. Discuss at least one with an example.**
- 6. What is the difference between Dependent and Independent Variables in Extension Research? Discuss with an example.**
- 7. What is Ex-post facto design? List the steps and explain with an example.**
- 8. What is the difference between Quantitative and Qualitative Research? How non parametric statistics is useful in Qualitative Research of Agricultural Extension?**



\*\*\*\*\*