

**M.Sc (Ag.) in Agricultural Extension Education Semester - I Examination 2023**  
**Course No: EXT-501**  
**(Extension Landscape)**

**Time – 2.5 Hours**

**Full marks - 50**

*Questions are of value as indicated in the margin.*

**Answer any five questions.**

- |    |   |          |
|----|---|----------|
| 1. | Elucidate definition of Purposes of Advisory Method. Discuss major Paradigms of Agricultural Extension.   | 4+6=10   |
| 2. | Elucidate the concept and practice of AKIS. Write a note on technological innovation in Agricultural Knowledge and Information Systems (AKIS).                        | 4+6=10   |
| 3. | Relationship between National Agricultural Development Goals and Different Agricultural Extension Objectives and Functions.   | 10       |
| 4. | What do you mean by decentralization of extension services? Critically explain Factors affecting decentralization of Extension  | 4+6=10   |
| 5. | Discuss the challenges faced by EAS in India  | 10       |
| 6. | Describe Importance of organizing different types of Producer Groups and Organizations. Discuss about the different institutions engaged in capacity building of EAS. | 4+6=10   |
| 7. | What is Climate Smart Agriculture? How extension can contribute to up-scaling Climate Smart Agriculture.  | 2+8=10   |
| 8. | Write Short Notes on the following ( <u>Any Four</u> )  | 4×2.5=10 |
|    | (a) Forms of research–extension linkage   |          |
|    | (b) EAS and Natural Resource Management   |          |
|    | (c) Extension through Commodity Boards  |          |
|    | (d) AIS   |          |
|    | (e) Demand-driven extension.  |          |
|    | (f) Role of Media and ICT as advisory service providers   |          |

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**Answer any five questions.**

1. What do you mean by Pluralism in Extension and Advisory Services (EAS)? Discuss in brief about the major paradigms of agricultural extension. 3+7=10
2. Briefly discuss about the primary clientele served by agricultural extension. Discuss about the role of extension in attracting and retaining youth in Agriculture. 5+5=10
3. Briefly elucidate different extension approaches and models. 10
4. What do you mean by decentralization of extension services? Critically explain Extension and Sustainable Development Goals (SDGs) 3+7=10
5. Elucidate the concept and practice of AKIS. Write a note on technological innovation in Agricultural Knowledge and Information Systems (AKIS) 4+6=10
6. Write the importance of capacity building in EAS. Discuss about the different institutions engaged in capacity building of EAS. 4+6=10
7. What is Climate Smart Agriculture? How extension can contribute to up-scaling Climate Smart Agriculture. 4+6=10
8. Write Short Notes on the following (Any Four) 4×2.5=10
  - (a) Forms of research–extension linkage
  - (b) EAS and Natural Resource Management
  - (c) Extension through Commodity Boards
  - (d) AIS
  - (e) Demand-driven extension.
  - (f) Role of Media and ICT as advisory service providers
  - (g) Extension Advisory Services (EAS)

**M.Sc (Ag.) in Agricultural Extension Education Semester - I Examination 2022**  
**Course No.: EXT-502**  
**(Applied Behaviour Change)**

**Time - 2 Hours**

**Full marks - 30**

*Questions are of value as indicated in the margin*

**Answer any three questions**

1. Give concept of behaviour. Write in detail about types and three aspects of behaviour with examples. 5+2+3=10
2. Define learning. Write down different theories of learning. 4+6=10
3. What is attitude? Write down characteristics of attitude. How can it be measured? 3+3+4=10
4. Define perception. What are the common shortcuts we use in judging others? 2+8=10
5. Write Short Notes on (Any Four) 2.5x4=10
  - a) Terminal values
  - b) Instrumental values
  - c) Attribution theory
  - d) Emotion
  - e) Learning curve
  - f) Social identity theory

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**Course No.: EXT-502**  
**(Applied Behaviour Change)**

**Time - 2 Hours**

**Full marks - 30**

*Questions are of value as indicated in the margin*

**Answer any three questions**

1. Define learning. What is learning experience and learning situation? Write down different theories of learning. 2+1+3+4=10
2. Why people form group? Explain five-stage-group-development model. What is decision making? What are its characteristics? 1+5+1+3=10
3. Give concept of motivation. What are its elements? Write in detail about theories of motivation. 1+1+8=10
4. Define attitude and perception. Describe three components of attitude with examples. Does behaviour always follow from attitudes? 4+3+3=10
5. Write Short Notes on (Any Four) 2.5x4=10
  - a) Cognitive dissonance
  - b) Cognitive information processing
  - c) Stereotyping
  - d) Problem solving
  - e) Halo effect
  - f) Ingroup favouritism
  - g) Emotion

**M.Sc. (Ag.) in Agricultural Extension Education Semester I Examination, 2023**  
**Course No.: EXT-504**  
**(Research Methodology in Extension)**

Time: 2 hours

Full marks: 30

Answer *any four* questions  
All questions carry equal marks

1. What do you mean by inductive and deductive methods of research? Discuss the theory, concept, construct, and variables with examples. 2.5+5=7.5
2. Classify different design of research – quantitative, qualitative, and mixed methods. 2.5+2.5+2.5=7.5
3. Define and classify hypothesis. What do you mean by probability and non-probability sampling techniques, give examples. When to use non-probability sampling? 2.5+3.+2=7.5
4. What do you mean by reliability and validity of an instrument? Discuss different types of reliability and validity. 2.5+5=7.5
5. Differentiate between questionnaire and schedule used for data collection. Write the advantages and limitations of both. 3.5+4=7.5
6. What are the procedures of data compilation and data treatment? What is the process of normalisation of data? Give examples of diagnostic, inferential, and relational statistics. 3+2+2.5=7.5
7. Write short notes on (*any three*) 2.5x3=7.5
  - a) Ex-post facto study
  - b) Case study method
  - c) Snowball sampling
  - d) Pilot survey
  - e) Type I and Type II error
  - f) Systematic and Narrative review

**M.Sc. (Ag.) in Agricultural Extension Education Semester I Examination, 2024**  
**Course No.: EXT-504**  
**(Research Methodology in Extension)**

Time: 2 hours

Full marks: 30

Answer *any four* questions  
All questions carry equal marks

1. What are the purposes of extension research? Discuss the four paradigms of extension research with examples. What are the features of social science research? 2+4+4=10
2. Classify different quantitative and qualitative design of research. Explain MAXMINCON principle of research. 6+4=10
3. Differentiate between proposition and hypothesis with examples. Describe one probability and one non-probability sampling technique with examples. 4+6=10
4. “A reliable instrument may or may not be valid; however, a valid instrument is always reliable” – Explain with examples and prove it mathematically. Explain four levels of measurements with examples under each. 6+4=10
5. Give an account of different data collection techniques with their advantages and disadvantages. What are the different types of errors in a field survey? 6+4=10
6. Write short notes on (*any Four*) 2.5x4 =10
  - a) Systematic and Narrative review
  - b) Missing data treatment
  - c) Types of variables
  - d) Unequal probability sampling
  - e) Statistical assumptions for relational statistics like regression
  - f) Mixed methods of research design
  - g) Internal and external validity
  - h) Treatment of outlier in the data

**M.Sc (Ag.) in Agricultural Extension Education Semester - I Examination 2023**  
**Course No: EXT-506**  
**(ICTs for Agricultural Extension and Advisory Services)**

**Time - 2 Hours**

**Full marks - 30**

*Questions are of value as indicated in the margin*

**Answer any three questions**

1. (a) Discuss the Prospects of ICTs in Agricultural Development 5+5=10  
(b) What are the emerging issues in ICT?
  
2. (a) What is Knowledge Management? 3+7=10  
(b) Discuss the e-extension initiatives in Agriculture and allied sectors.
  
3. (a) What is Open data? 2+4+4=10  
(b) Explain the process of developing a digital video  
(c) Enlist different Social Media Platforms
  
4. (a) What is Multimedia learning? 2+4+4=10  
(b) Discuss the Cognitive load theory of Multimedia learning  
(c) Enlist the principles of Multimedia learning
  
5. Write Short Notes on (Any Five) 5×2=10
  - (a) Website vs Web portals
  - (b) Computer-aided instruction
  - (c) Blockchain Technology
  - (d) Farmers call centres
  - (e) IOT
  - (f) Information kiosks
  - (g) Mobile applications in agriculture
  - (h) Data analytics

**M.Sc (Ag.) in Agricultural Extension Education Semester - I Examination 2024**  
**Course No: EXT-506**  
**(ICTs for Agricultural Extension and Advisory Services)**

**Time - 2 Hours**

**Full marks - 30**

*Questions are of value as indicated in the margin*

**Answer any THREE questions**

1. (a) Discuss the Prospects of ICTs in Agricultural Development. 5+5=10  
(b) What are the emerging issues in ICT?
  
2. (a) What is Knowledge Management? 3+7=10  
(b) Discuss briefly the application of smart technologies in agricultural knowledge management.
  
3. (a) What is New media? 2+8=10  
(b) Discuss the types and functions of social media applications.
  
4. (a) What is Multimedia learning? 3+7=10  
(b) Discuss the principles of Multimedia learning.
  
5. Write Short Notes on (Any Four) 4×2.5=10
  - (a) Knowledge Networks
  - (b) Computer-aided instruction
  - (c) Blockchain Technology
  - (d) Management Information System
  - (e) IOTs
  - (f) NeGP-A
  - (g) Data Science