



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION
2025_2 EXAMINATIONS

Course Code: ARD508
Course Title: **Technological and Social Change in Agriculture**
Credit Unit: 2
Instruction: Answer Question 1(30 marks) and any other 2 questions (20 marks)
Time Allowed: 2 hours.

- 1a. Explain the term, 'agricultural mechanization'. (3marks)
- 1b. Write short note on 'Time-span' of social change (4marks)
- 1c. State three (3) anti-resistance strategies to technology change in rural areas. (3marks)
- 1d. Discuss briefly effect of culture on technology transfer. (6marks)
- 1e. Highlight method-related factor considered in introducing new innovation to rural farmers. (9marks)
- 1f. Outline 5 roles of extension in agricultural development. (5marks)

- 2a. Explain three principles of effective change management. (6marks)
- 2b. State five principles to consider in designing farming implements in mechanization. (5marks)
- 2c. Highlight three factors that determine the magnitude of change in farmers. (6marks)
- 2d. Explain the term, "technology transfer" (3marks)

- 3a. Discuss provider-related factors of new technology in agriculture. (5marks)
- 3b. outline three (3) lessons of Indian collaborative approach in improving agricultural mechanization. (6marks)
- 3c. Differentiate between internal and external changes in the social system. (3 marks)
- 3d. State three branches of agricultural engineering. (3marks)
- 3e. Highlight three ethical issues in technology use by farmers. (3marks)

- 4a. Explain 3 characteristics of an agricultural innovation. (9 marks)
- 4b. Discuss briefly Client-related factor in introducing change in a rural area. (6marks)
- 4c. Outline 5 functions of an extension agent in technology transfer process. (5marks)