



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**University Village, Nnamdi Azikiwe Expressway, Plot 91, Cadastral Zone,**  
**Jabi, Abuja**  
**Faculty of Agricultural Sciences**  
**Dept. of Agricultural Economics and Extension**  
**2020\_2 Examination**

Course: ARD302: Extension Teaching, Learning Processing and Methods  
Credit Unit: 3  
Level: 300  
Time Allowed: 3hrs  
Instructions: Answer question one (1) which is compulsory. Attempt any four (4) questions which carry equal marks.

1.
  - (a) Discuss the concept of teaching in agricultural extension (2.5marks).
  - (b) Explain five (5) implications of teaching process for extension work with reference to their basic characteristics (10marks).
  - (c) There are several ways by which learning takes place in individuals. Enumerate and discuss five (5) key ways by which we can learn effectively in extension (12.5 marks).
  - (d) What do you understand by projected and non-projected instructional materials in extension? (5marks).
2.
  - (a) Explain the concept of method demonstration in extension (2.5 marks).
  - (b) List five (5) importance of method demonstration in agricultural extension (5 marks)
  - (c) Describe chalkboard as instructional aid in extension (2.5 marks).
3.
  - (a) Discuss the concept of mass communication in extension (2 marks).
  - (b) What do you understand by mass media institutions? (2 marks)
  - (c) Enumerate and discuss three (3) key functions of mass communication in extension (6 marks).
4.
  - (a) Explain the concept of instructional materials in extension (2.5 marks).

- (b) Mention five (5) key reasons why instructional materials as a medium of effective transmission of agricultural extension concepts cannot be over emphasized (7.5marks).
5. There is a saying that “The teacher has not taught if the pupil has not learned”. Identify and discuss four (4) principal factors which encourage adult farmers to learn best in extension (10 marks).
6. (a) An extension instructor uses instructional materials in extension when it is appropriate to the objective of his lesson. List and discuss three main areas in which instructional aids can be utilized in agricultural extension lesson (7.5marks).
- (b) Substantiate why extension teacher should substitute instructional materials in agricultural extension lesson (2.5 marks).
7. Write short notes on any four (4) of the following:
- i. Audio- Visual Aids
  - ii. Empathy
  - iii. Individual methods
  - iv. Personal letters
  - v. Audience
  - vi. Result demonstration.