



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**FACULTY OF AGRICULTURAL SCIENCES**  
**DEPARTMENT OF CROP AND SOIL SCIENCES**

***EXAMINATION: FIRST SEMESTER POP EXAMINATION APRIL 2109-1***

**COURSE TITLE: INTRODUCTION TO FARM MECHANISATION**

**COURSE CODE: AGM314**

**CREDIT UNIT: 2**

**TOTAL SCORE: 70 MARKS**

**TIME ALLOWED: 2hours 30minutes**

**INSTRUCTION: Answer FOUR Questions in All. Question 1 is compulsory (25marks) and any three questions (15 marks each)**

- |  |            |
|--|------------|
| 1a. Explain in details the concept of Agricultural Mechanization                 | (15 marks) |
| 1b. List 10 aims and objectives of Agricultural Mechanization                    | (10 marks) |
| 2a. Differentiate between the types of tillage practices carried out in the farm | (5 marks)  |
| 2b. Explain in detail what is conventional Tillage?                              | (10 marks) |
| 3a. What are two major sources of power in the farm.                             | (6 marks)  |
| 3b. What are the terms used to describe an engine?                               | (9 marks)  |
| 4a. Describe the principles of a four stroke Diesel engine                       | (9 marks)) |
| 4b. Mention any two types of power from the Tractor.                             | (6 marks)  |
| 5a. List five basic Machines use in agricultural operations.                     | (10 marks) |
| 5b. Define a Machine.  | (5 marks)  |
| 6a. Differentiate between fix and variable costs.                                | (9 marks)  |
| 6b. List any six hand tools found in an agricultural workshop.                   | (6marks)   |