



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja**  
**Faculty of Agricultural Sciences**  
**October/November, 2016**

**Course Code: AGM314**

**Course Title: INTRODUCTION TO AGRICULTURAL MECHANISATION**

**CREDIT UNIT: 2**

**TOTAL SCORES: 100 MARKS**

**TIME: 2 ½ HOURS**

**INSTRUCTIONS: Answer any four (4) question.**

- 1a) What are the three major classification of machines used to perform primary tillage.
- b) Name the three principal types of plows use for farming.
- 2a) Describe the moldboard plow and state its working principle
- b) Enumerate five characteristics of planters and Grain drills.
- 3a) Differentiate between Row crop planters and Grain drills / broadcasters.
- b) What are the operations required to prepare planting and seeding Machinery?
- 4a) In machinery management, what is a fixed cost and what are the factors affecting it?
- b) A machine was purchased at a cost of #120,000.00. It has a salvage value of 10 percent and a useful life of 15years. Calculate the annual depreciation using the straight – line method.
- 5) List the five basic engine parts of an internal combustion engine.
- 6) Differentiate between the terms puston displacement and compression ratio of an engine.