



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

EXAMINATION: 2021_1 SEMESTER POP EXAMINATION

COURSE TITLE: INTRO FARM MECHANIZATION (2CU)

COURSE CODE: AGM314

TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer *THREE* Questions in all. Compulsory question 1 (30marks) and any *TWO* questions (20 marks each)

TIME ALLOWED: 2hours

QUESTIONS

Q1

- List and Describe the four cycles of events required to turn heat into motion in an Internal Combustion Engine (12 marks)
- List four advantages of Hay conditioning (4 marks)
- State the difference between Petrol and a Diesel engine (9marks)
- Enumerate five advantages of machines in agriculture (5 marks)

Q2

- Explain any four important criteria needed by a farmer when selecting a farm machinery (6marks)
- Outline the purpose of tillage system in Crop Production. (4marks)
- Differentiate between Primary and Secondary tillage (10 marks)

Q3

- List four basic terms associated with the use of machines (10 marks)
- List four purposes of tillage (4 marks)
- Name five basic engine parts (5 marks)

Q4

Define the following terms:

- (a) Horse Power (b) Draw Bar Power (c) PTO Power (d) Brake Power (20 marks)