



NATIONAL OPEN UNIVERSITY OF NIGERIA
91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI, ABUJA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCES
2020_2 EXAMINATION

COURSE CODE: AGM314

COURSE TITLE: INTRO FARM POWER AND AGRIC MECHANIZATION

TOTAL CREDIT UNITS: 3 CU

INSTRUCTIONS: Answer four questions in all. Question one is compulsory (25 marks). The rest carry 15 marks each.

TIME: 2:30 MINS

1.
 - a. In an Internal Combustion Engine, list the four cycles of events required to turn heat into motion (12 marks)
 - b. Differentiate between Petrol and a Diesel engine (8 marks)
 - c. Machines in agriculture have advantages, list five. (5 marks)
2.
 - a. List four advantages of Hay conditioning (6 marks)
 - b. State six important criteria when selecting a farm machinery (9 marks)
3.
 - a. Differentiate between Primary and Secondary tillage (9marks)
 - b. Enumerate four purposes of tillage (6 marks)
4.
 - a. Name five basic engine parts (5 marks)
 - b. List four basic terminologies associated with the use of machines (10 marks)
5. Briefly describe the following terms:
 - a) horse power, (b) Draw bar power, (c) PTO power (d) brake power (15 marks)
6.
 - a. Elucidate the difference in the power train of a tractor (8 marks)
 - b. Mention two methods power can be transmitted for agricultural work (7 marks)