



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCES
2024_2 EXAMINATION

COURSE TITLE: FARM POWER AND AGRIC. MECHANIZATION (2 CU)

COURSE CODE: CPR 312

TOTAL SCORE: 70 MARKS

TIME ALLOWED: 2 hours

INSTRUCTION: Answer THREE (3) Questions. Question 1 is Compulsory (30 marks) and any other TWO (2) Questions (20 marks each)

QUESTION 1

- a. Differentiate between primary and secondary tillage (6 marks)
- b. Describe the operation of a hydraulic system in a tractor (8 marks)
- c. Explain four (4) components of duster (8 marks)
- d. Give six (8) major components of an internal combustion engine (8 marks)

QUESTION 2

- a. State four (4) types of automatic drinkers and briefly explain two (10 marks)
- b. Explain three (3) reasons why draft power requirement data is important in selecting suitable tillage implements (6 marks)
- c. Distinguish between a grain drill and a planter (4 marks)

QUESTION 3

- a. Explain five (5) types of harvesting equipment (10 marks)
- b. Discuss five (5) ways of maintaining planters and grain drills (10 marks)

QUESTION 4

- a. Discuss five (5) problems associated with Non-mechanized agriculture (10 marks)
- b. Briefly explain the five (5) sources of farm power (10 marks)