



## NATIONAL OPEN UNIVERSITY OF NIGERIA

### SCHOOL OF SCIENCE AGRICULTURE

#### ARABLE CROP PRODUCTION (ACP 301) FINAL EXAMINATION JANUARY 2018

- i) Answer at least one question from each section compulsorily.
- ii) Answer four questions in all.
- iii) Answer all Questions in 2 ½ hours.

#### SECTION A

Question 1.

- a) Give a description of annual crops according to
  - (i) Longevity/life span (3 Mrks.)
  - (ii) Growth pattern/ crop architecture (3mrks)
- (b) Classify annual crops according to uses. (5Mrks)
- (c) List at least any two crops that can be propagated using (i) sexual (2Mrks)
  - (ii) a-sexual processes. (2Mrks)
- d) Use scientific names and common names to identify at least 10 annual crops (10 marks).

#### SECTION B

Question Two

- a) List, (using the scientific names only of) any two oil yielding arable crops in each category of uses.
- b) List any two crops in the category of (i) annual (2 ½ Mrks)
  - (ii) bi-annual crops (2 ½Mrks)
- c) Write short note on the following: (i) Sexual reproduction (2 ½ Mrks)
  - (ii) Asexual reproduction (2 ½Mrks)

Question Three

- a) List any five climatic to be considered in setting up an arable field (5 Mrks)
- b) List any five edaphic factors to be considered in setting up an arable field. (5 Mrks)
- c) Explain Five the advantages of having a good seed bed preparation (5 Mrks)

Question four.

Write a short explanatory note on any five of the following on: (3Mrks each))

- (i) Weeding. (ii) Mulching (iii) Thinning (iv) Supplying (v) Pruning (vi) Staking

Question five

- a) List any six mineral fertilisers used in the production of arable crop. (6 Marks)
- b) Describe four methods of fertiliser application (4 marks)
- c) List any five groups of organisms causing plant diseases or reduction in crop yield. (5marks)

Question six

- (ai) Describe harvesting (2marks)
- (aai) List any four tools for harvesting (4marks)
  - a) List of four harvest indices (3 marks)
  - b) List four primary processing methods and explain why primary processing is important. (6 marks)