



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

EXAMINATION: FIRST SEMESTER POP EXAMINATION APRIL 2109-1

COURSE TITLE: ARABLE CROP PRODUCTION

COURSE CODE: ACP301

CREDIT UNITS: 2

TOTAL SCORE: 70 MARKS

TIME ALLOWED: 2hours 30minutes

INSTRUCTION: Answer FOUR Questions in All. Question 1 is compulsory (25marks) and any three questions (15 marks each)

Question

1(a) Identify the farm equipment presented below and afford the specific use(s) of the identified tool(s) (20 marks)



(b) Classify annual crops according to uses. (5 MARKS)

Q2.

- a) List, (using the scientific names only of) any two oil yielding arable crops in each category of uses. (5marks)
- 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)

Q3

- a) List any five climatic factors 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 advantages of having a good seed bed preparation (5 Mrks)

Q4.

Write a short explanatory note on any five of the following on:

- (i) Weeding. (ii) Mulching (iii) Thinning (iv) Supplying (v) Pruning (vi) Staking (Any 5 X 3 = 15Mrks each)

Q5

- 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)

Q6

a) March the following terminologies with the appropriate crops or farm operations on the table

(i)Vines, (ii) Mulching, (iii) training, (iv)staking, (v) retting,(vi) top dressing,(vii) broadcasting,(viii) drainage, (ix)irrigation (x)trapping.

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|-----|--|-------|
| 1) | Removal of excess water from the field. | ----- |
| 2) | Using straw protect soil surface | ----- |
| 3) | Application of water to crops on farm land | ----- |
| 4) | A method of pest control | ----- |
| 5) | Application of second dose of fertiliser | ----- |
| 6) | A sowing method | ----- |
| 7) | Manually assisting twins/creepers to climb | ----- |
| 8) | A method of pest control | ----- |
| 9) | Processing of (jute) fibre material | ----- |
| 10) | Giving artificial support to weak stems | ----- |

(10 X 1 ½ = 15 marks)