



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**FACULTY OF AGRICULTURAL SCIENCES**  
 KM 4 Kaduna - Zaria Expressway Riga Chikun Kaduna  
**DEPARTMENT OF CROP AND SOIL SCIENCES**  
**SEPTEMBER, 2020\_1**

**COURSE CODE: CRP503**

**COURSE TITLE: WEED SCIENCE AND CONTROL**

**TOTAL CREDIT UNIT: 3 CU**

**INSTRUCTIONS:** Answer five questions in all. Question one is compulsory (30 marks). Any other four questions of 10 marks each.

**TIME ALLOWED:** 3 hours

- 1) (a) From your understanding of the definition of weeds, justify whether the growth of the following plant species on a farmer's farm could be considered as weeds: *Eleusine indica*; *Rattboelia*; *Striga*; *Tridax*; *Imperata* (10 marks)
- (b) Classify the available weeds in your environment based on habitat (10 marks)
- (c) (i) With an example, what do you understand by granular formulation (5 marks)
- (ii) List the advantages of granular formulation over other herbicide formulations. (5 marks)
- 2) Complete the table below on selected weeds, their propagules and their modes of Dispersal (10 marks)

SNo	Species of weed	Propagules	Mode of dispersal
1	<i>Agerantum conyzoides</i>	Seed/spikelet	
2	<i>Acanthosperm hispidium</i>	Seed	
3	<i>Imperata cylindrical</i>	Seed/spilelet/rhizomes	
4	<i>Imperata acquatica</i>	Seed	
5	<i>Rotboelia spp</i>	Spikelet	
6	<i>Cassia occidentalis</i>	Seed	
7	<i>Oryza bathii</i>	Seed	

- 3) State the advantages and disadvantages of animal drawn weeders (10 marks)
- 4) There is this adage that 'prevention is better than cure' Outline the methods available for preventing weeds from going to seed. (10 marks)
- 5) List five (5) methods of herbicide application and explain two of the methods (10 marks)
- 6) Mention ten (10) types of safety information on a herbicide product label formulated for crops. (10 marks)
- 7) Explain the effects of plant morphology on herbicide selectivity (10 marks).