



**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/spilet/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).