

**B.Sc. (Honours) Agriculture Semester-I Examination, 2018**

**Course No: AGR-111**  
**( Fundamentals of Agronomy )**

Signature of Centre Superintendent

**Roll No. :** (in figure) \_\_\_\_\_ (in words) \_\_\_\_\_

Student Index No. \_\_\_\_\_ Regn. No. \_\_\_\_\_ of \_\_\_\_\_

**Time : Two Hours**

**Full marks : 50**

Questions are of value as indicated in the margin

**Part - I**  
**(Objective and Short Answer Type)**  
**(Use only ball point pen)**

**Time : 30 minutes**

**Full marks : 20**

- Note:** 1. Answer in question paper itself.  
2. Striking, rewriting or overwriting are not allowed in the objective type questions.

1. **Fill up the blanks with most appropriate words:** 5×1.0=5.0
- a) CAN stands for \_\_\_\_\_.
- b) Muriate of potash contains \_\_\_\_\_% of K<sub>2</sub>O.
- c) *Phalaris minor* is the associated weed of \_\_\_\_\_ crop.
- d) \_\_\_\_\_ is an example of concentrated organic manure.
- e) Growing of two or more crops in a specific row arrangement is called \_\_\_\_\_.
2. **Underline the correct alternative:** 5×1.0=5.0
- a) N% in urea is  
(i) 20, (ii) 46, (iii) 40, (iv) 25.
- b) Seeds produced from foundation seed is called  
(i) Breeder seed, (ii) Foundation seed, (iii) Certified seed, (iv) Truth Fully labelled seed.
- c) Ca, Mg and S are called  
(i) Secondary nutrients, (ii) Primary nutrients, (iii) Micronutrients, (iv) Ultra-micronutrients.
- d) The term Tillage was given by  
(i) Liebig, (ii) Jethro Tull, (iii) Bacon, (iv) Rice.
- e) The propagating material 'root slip' is produced by  
(i) Dhaincha, (ii) Napier grass, (iii) Groundnut, (iv) Mustard

**P.T.O.**

3. Write short notes on the following (*any five*):

5×2=10

a) Zero tillage

b) Critical period of crop weed competition

c) Bio-fertilizer

d) Primary tillage

e) Physiological maturity

f) Objectives of tillage

g) Crop geometry

h) Allelopathy

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**Part - II  
(Descriptive Type)**

**Time : 120 Minutes**

**Full marks : 30**

Questions are of value as indicated in the margin

**Answer *any three* questions.**

4. a) What is crop rotation?  
b) State the principles of crop rotation.  
c) What are the advantages of crop rotation? 2+4+4=10
5. a) Define weed.  
b) What are the harmful effects of weed on crop?  
c) Briefly discuss about different methods of weed control. 1+3+6=10
6. a) Define herbicide.  
b) Give classification of herbicide according to selectivity and relative time of application to weed emergence.  
c) What are the factors affecting the selectivity of herbicide? 1+6+3=10
7. a) Define seed.  
b) What are the characteristics of good seed?  
c) Describe classification of seeds. 1+3+6=10
8. a) Define manures and fertilizers.  
b) Give classification of manures, fertilizers and green manures with examples. 2+8=10
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