

## GIET UNIVERSITY, GUNUPUR – 765022

RD19BSCAG002

| Total Num  | nber of Pages: 2   | AR-2019<br>TER EXAMINATIONS (REGULAR |                                    |
|--|--|--------------------------------------|------------------------------------|
| AG-111 FUNDAMENTALS OF AGRONOR Time: 2 Hours           |  |                                      | Maximum : 50 Marks                 |
|  | (A   | nswer all questions of Section – A)  |                                    |
|  |  | SECTION-A                            |                                    |
| Q.1. Fill in the blanks with suitable words / figures. |  |                                      | $(10 \times 0.5 = 5 \text{marks})$ |
| a.   | is a master nut  |                                      |                                    |
| b.   | An associated weed of wheat crop field is  |                                      |                                    |
| c.   | The unit of measurement of Bulk density is   |                                      |                                    |
| d.   | The practice of applying herbicide along with irrigation water is known as                                   |                                      |                                    |
| e.   | The movement of water from the surface in to the soil is called  |                                      |                                    |
| f.   | seed is the progeny of foundation seed and the tag colour is   |                                      |                                    |
| g.   | is the attraction of solid surfaces for water molecules.   |                                      |                                    |
| h.   | The phenomenon of one plant having detrimental effect on another through production of chemica               |                                      |                                    |
|  | is called  | _                                    | • •                                |
| i.   | Iron deficiency first appears  | in leaves.                           |                                    |
| j.   |  |                                      | method.                            |
| 3  | 7  | Ş <u>—</u>                           |                                    |
| Q.2.Ma   | catch the column 'A' with column-A a.Chickpea b.Cotton c.Salt petre d.Sugarcane e.Grey speck f.Non selective | Column-B i. Blind hoeing             | (6x0.5=3marks)                     |
| Q.3. Expand the following-                             |  |                                      | (4x0.5=2marks)                     |
| S  | SBI-   |                                      |                                    |
| CRIDA-   |  |                                      |                                    |
| Т  | TNAU-  |                                      |                                    |
| A  | AICRP-   |                                      |                                    |

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Q.4. Tick the most appropriate answer from the following-

(5x0.5=2.5 marks)

i. The father of Agronomy is

a.Jethro Tull b.Norman E.Borlaug c. L A Ramdas d.Peter Discresenzi

ii. Both sides of a canal becomes waterlogged because of-

a.Seepage b. Deep percolation c. Infiltration d. Leaching

iii. When organic matter is applied to soil, the bulk density

a.Decreases b.Increases c.maintains a constant value d. increases due to porosity

iv. Chemicals used to inactivate the applied herbicides are called as

a.Safeners b.Antidotes c.Adjuvants d.Surfactants

v. The concept of PET was first given by

a. Thornthwaite b. Penman c. Blaney Criddle d. None of the above

Q.5. Write true or false against each statement-

(5x0.5=2.5 marks)

i. Zaid crops are sown after the onset of monsoon

ii. Average annual precipitation in India is 1500mm.

iii.ICRISAT is situated at Hyderabad

iv. Entire quantity of soil water held in micro pore space is available to plants.

v. Part of the life cycle of second crop overlaps with the cropping cycle of first crop in relay cropping.

## **SECTION-B**

Q.6. Write short notes on the following - (any five)

(5x1=5marks)

- i. Crieteria of essentiality
- ii. Bioherbicide
- iii. Economic and biological crop yield
- iv. Effective rainfall
- v. Conjunctive use of water
- vi. Zero tillage.

Describe the following (Any five)

(5x5=25marks)

- Q.7. Define tillage and tilth. What are the objectives of tillage. Write down the role of tillage on soil physical properties.
- Q.8. Define crop rotation and advantages of crop rotation. State the important points to be considered for planning the efficient crop rotation.
- Q.9. Define agricultural drainage. What are the benefits of agricultural drainage. Discuss about different types of surface drainage systems.
- Q.10.What is biological control of weeds. Write the crieteria for selection of suitable bio-agents. Give two examples of successful biological control measures.
- Q.11. What do you mean by scheduling of irrigation. Briefly discuss the climatological approach of scheduling of irrigation to crops.
- Q.12. Classify the weeds according to association, nature of stem, habitat and origin with examples.

---End of paper---

