## BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: IMSC SEMESTER : III
BRANCH: FOOD TECHNOLOGY SESSION : MO/2022

SUBJECT: FT205 INTRODUCTION TO AGRICULTURAL PRACTICES

TIME: 3:00 Hours FULL MARKS: 50

## **INSTRUCTIONS:**

- 1. The question paper contains 5 questions each of 10 marks and total 50 marks.
- 2. Attempt all questions.
- 3. The missing data, if any, may be assumed suitably.
- 4. Before attempting the question paper, be sure that you have got the correct question paper.
- 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

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| Q.1(a)<br>Q.1(c)           | What is the concentration of ozone at 30km altitude? ( $[M]=10^{17.68}$ molecules/cm <sup>3</sup> What would the pH of rain be if the atmosphere has $K_{a1}=10^{-1.77}$ , $K_{a2}=10^{-7.21}$ | (CO1, BT6)                             | [5]<br>[5]        |
|----------------------------|--|--|-------------------|
| Q.2(a)<br>Q.2(b)<br>Q.2(c) | Explain universal soil loss equation. Classify biofertilizers. Explain different types of wind erosion and its effects.  | (CO2, BT2)<br>(CO2, BT3)<br>(CO2, BT2) | [2]<br>[3]<br>[5] |
| Q.3(a)<br>Q.3(b)<br>Q.3(c) | Define cropping pattern. Explain crop water requirement. Enlist the characteristics of watershed.  | (CO3, BT1)<br>(CO3, BT2)<br>(CO3, BT3) | [2]<br>[3]<br>[5] |
| Q.4(a)<br>Q.4(b)<br>Q.4(c) | Enlist the characteristics of organic farming.<br>Classify and elaborate crop rotation system.<br>Explain different types and harvesting of wheat.   | (CO4, BT1)<br>(CO4, BT3)<br>(CO4, BT2) | [2]<br>[3]<br>[5] |
| Q.5(a)<br>Q.5(b)<br>Q.5(c) | Explain four recognized classes of seeds.  Describe the methods of dispersal of weeds.  Explain the principles of weed control.  | (CO5, BT2)<br>(CO5, BT2)<br>(CO5, BT2) | [2]<br>[3]<br>[5] |

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