

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: IMSc
BRANCH: FT**

**SEMESTER: III
SESSION: MO/2022**

SUBJECT: FT205 INTRODUCTION TO AGRICULTURAL PRACTICES

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q1 (a)	Explain three ozone catalytic cycles reactions based on Chapman principles	[2] 1	2
Q1 (b)	Derive chemical kinetics of pseudo steady state of Chapman reactions.	[3] 1	4
Q2 (a)	Distinguish between soil texture and soil structure	[2] 1	3
Q2 (b)	Explain different types of soil texture.	[3] 1	2
Q3 (a)	Explain the concept of Integrated Nutrient Management.	[2] 2	2
Q3 (b)	Classify the essential elements for crop growth.	[3] 2	3
Q4 (a)	Enlist the advantages of biofertilizers.	[2] 2	1
Q4 (b)	Classify fertilizers.	[3] 2	1
Q5 (a)	Distinguish between pore space and sodicity.	[2] 3	3
Q5 (b)	Enumerate gravity type of soil erosion.	[3] 3	3

::: 30/09/2022 :::M