Cod	SARASWATHI NARAYANAN COLLEGE (Autonomous Institution Affiliated to Madurai Kamaraj University) (Reaccredited with Grade 'B' by NAAC) Madurai – 625 022. B.Sc., Chemistry–Summative Examinations – APRIL 2024 Code: LUCHSE21 Semester: II AGRICULTURAL CHEMISTRY Duration: 2 Hrs. Max: 50 Marks SECTION – A 5 x 1 = 5				
	Answer ALL question	s. Choose the correct answer. ((K2 Level)		
1.	The natural three dimensional body having various uses is called				
	a) Soil	b) Water			
	c) Atmosphere	d) None of these			
2.	The two ions responsible for the acidity of soil are				
	a) Mg^{2+} & Ca^{2+}	b) Al ³⁺ & H ⁺			
	c) $Zn^{2+}\&K^{+}$	d) Fe ²⁺ & Cu ²⁺			
3.	Identify the irrigation method, in which evaporation of water is				
	minimum.				
	a) Sprinkler	b) Drip			
	c) Surface	d) Gun			
4.	Which is a constitue	nt of several oxidizing enzymes	such as		
	polyphenol oxidase and ascorbic acid oxidase?				
	a) Zn	b) Cu			
	c) Mo	d) Ca			
5.	BHC cannot be prepared by chlorination of				
	a) Cyclohexane	b) cyclohexene			
	c) benzene	d) cycloheptane			

II.	Fill in the blanks (K1 Level) 5 x 1 =	: 5		
6.	Alluvial soils are transported by			
7.	Soil with spherical shape and has a size range of 5-50mm is called			
8.	The measure of the combined content of organic and inorganic			
	substances contained in a liquid is called			
9.	The growth of buds and tips diminish due to the deficiency of			
	metal.			
10.	give out poisonous vapours and kill insects.			
	SECTION-B 5 x 2 = Answer all the questions.	10		
11.	What is Cation exchange capacity?(K2)			
12.	What is meant by soil buffering?(K2)			
13.	Give the uses of irrigation.(K3)			
14.	List out the advantages of Organic fertilizer.(K4)			
15.	How effectively systemic pesticide control pest?(K5/K6)			
	SECTION-C $3 \times 10 = 30$ Answer any THREE questions in about 4 pages each.)		
16.	Explain the important characteristics of soil colour and soil			
	texture.(K1)			
17.	Give an account on the importance of C-N ratio in soil fertility.(K2)			
18.	Illustrate the characteristics of surface and underground water.(K3)			

- 19. Account on the following,
 - i) urea ii) Fertilizer industry in India.(K4)
- 20. Write notes on Arsenic and Organic mercuric compounds. (K5/K6)