

**B. Sc. SEM 5 (GEN) PRACTICAL EXAMINATION, 2021**  
**BOTG-DSE-A-2-P**

*TIME – 1.5HR*

*MARKS- 30*

*Answer all questions*

Q1. Describe the Principle, reactions, reagents, procedure of measurement of dissolved oxygen by Azide modification of Winkler's method. 2+5+2+5=12

Q2. A) Determine the minimum size of quadrat from chart 1 with Species Area curve. 5

B) From Chart 2 determine Frequency of *Agrostis sp* and *Brachiaria sp.*, Density of *Cymbopogon sp.*, abundance of *Cynodon sp* and *Eleusine sp*. 2x5=10

CHART 1			QUADRAT	SIZE	cm <sup>2</sup>					
PLANT SPECIES	10X 10	20X 20	30X30	40X40	50X50	60X60	70X70	80X80	90X90	100X100
<i>Agrostis brachiata</i>	0	0	2	3	4	5	5	6	8	9
<i>Brachiaria ramosa</i>	0	3	4	5	6	8	10	11	12	14
<i>Cymbopogon citratus</i>	2	3	4	5	6	8	9	10	11	14
<i>Cynodon dactylon</i>	0	0	0	1	2	3	5	6	8	10
<i>Eleusine indica</i>	0	0	0	0	2	2	3	4	5	6

CHART 2			QUADRAT	SIZE	m <sup>2</sup>					
PLANT SPECIES	1	2	3	4	5	6	7	8	9	10
<i>Agrostis brachiata</i>	10	9	7	0	0	3	8	15	0	8
<i>Brachiaria ramosa</i>	0	0	4	0	5	0	5	0	6	10
<i>Cymbopogon citratus</i>	15	0	7	14	6	0	0	8	0	10
<i>Cynodon dactylon</i>	0	0	4	0	3	0	0	1	0	2
<i>Eleusine indica</i>	0	0	0	0	2	2	7	4	7	8

Q3. What is DBH? Mention any one Rapid Spot test for Carbonate or Nitrate or Iron present in soil sample. 2+1