

2022

M.Sc.

4th Semester Examination (CCAEE)

ZOOLOGY

PAPER—ZOO-495

(Practical)

Full Marks : 50

Time : 6 Hours

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**ZOO-495B**

**[ SPECIAL PAPER : ECOLOGY ]**

1. Compute Sørensen's similarity index between each of the sites based on presence/absence data given below ; mention the formula and comment on your result.

(Turn Over)

<i>Species</i>	<i>Site 1</i>	<i>Site 2</i>	<i>Site 2</i>
A	+		
B	+		+
C	+	+	
D	+	+	+
E	+	+	
F	+	+	+
G		+	
H	+		+
I		+	+
J	+		

6+2+2

2. Provide an illustrated account of the detailed methods of measuring Tree Height from a forest stand. 6+4
3. Calculate the micro-distribution of insect subpopulation in a studied plant given below and infer on the dispersion pattern. 5+2

No. of leaf	1	2	3	4	5	6	7	8	9	10
No. of Insects	3	3	0	0	0	0	5	0	0	1

4. With reference to the degraded habitat shown below, note any five observable traits of the habitat and write down the major steps for ecorestoration of the site. 5+5



5. Laboratory Note Book. 5
6. Viva-voce. 5

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**ZOO-495D**

**[ SPECIAL PAPER : PARASITOLOGY ]**

1. Make a whole mount of the mosquito mouth parts. Draw, label and write the function of each part. 9+3+5

2. Identify the supplied specimen (A, B, C & D). Write the genus character and mention systematic position and Medical importance. 4×4
  
  3. Submission of Prepared slide. 7
  
  4. Laboratory Note Book. 5
  
  5. Viva-voce. 5
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