PG CBCS

M.Sc. Semester- II Examination, 2022

DEPARTMENT OF ZOOLOGY

PAPER: ZOO 295

(PRACTICAL)

Full Marks: 50 **Time: 5 hrs**

The figures in the right-hand margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

1. Write the principle and procedure of estimation of dissolved oxygen from provided water sample. 10
2. The number of individuals of five species of herbivore populations was studied in ten different areas of forest ecosystem. Calculate from the given data the density, diversity, frequency and abundance of the herbivore community. 10

Sl. No.	Name of species	Number of individuals sighted in area number									
		A	B	C	D	E	F	G	H	I	J
1	*Axis axis*	11	5	0	0	2	4	0	2	0	0
2	*Cervusm untjak*	0	2	14	0	6	1	3	0	0	8
3	*Rusa unicolor*	1	7	0	5	0	0	2	10	2	0
4	*Rucervus duvaucelii*	0	0	0	9	2	8	0	0	0	3
5	*Boselaphus* sp.	4	1	2	0	0	0	1	5	0	6

3. How do you measure the pH of a given water sample with this instrument? Record the pH of the supplied water sample, as measured by you. 4+1
4. Prepare a standard curve of BSA solution and estimate the concentration of unknown protein sample from graph. 10+5=15
5. Laboratory note book. 5
6. Viva voce. 5

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