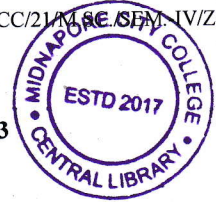


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PG (CBCS)
M.Sc. Semester- IV Examination, 2023
ZOOLOGY
PAPER: ZOO 494

(ENVIRONMENTAL MANAGEMENT, BIostatISTICS, DEVELOPMENTAL
BIOLOGY & NEURO-ENDOCRINOLOGY)

Full Marks: 50

Time: 6 Hours

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. Calculate the Biochemical Oxygen Demand (BOD) of the given water samples through the estimation of dissolved oxygen (DO) value using modified Winkler's method. 5
2. Prepare a whole mount of chick embryo from the given fertilized egg and identify the hour of development with reasons. 12
3. The three varieties of crops (A, B & C) were grown in 4 plots each. The following tables hews the yields in variety-

P	Q	R
7	7	2
4	5	5
5	5	7
7	3	4

Calculate whether there is significant difference between the yields of crops or not. F (2,9) 0.05= 4.26. 15

4. Dissect out the neuroendocrine structure from the sample provided. 8
5. Laboratory Note Book. 5
6. Viva-voce. 5
