

PG CBCS
M.SC. Semester-IV Examination, 2021
ZOOLOGY
 PAPER: ZOO 494
(PRACTICAL)

Full Marks: 50**Time: 2 Hours**

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

Answer TWO questions of the following:

2X25=50

1. Write down the procedure of Qualitative and quantitative estimation of soil biodiversity. Describe the principle, procedure and calculation of estimation of Chemical Oxygen Demand from water sample. 15+10
2. Analyse the progeny data from a testcross of a smooth, yellow double heterozygote (Ss Yy) with a wrinkled, green homozygote (ss yy). Is there any significant difference between the observed data and the expected data? The progeny data are as follows 25

154	smooth, yellow
124	smooth, green
144	wrinkled, yellow
146	wrinkled, green

Total: 568
3. Consider two parents who are both heterozygous for albinism, a recessive condition in humans that causes reduced pigmentation in skin, hair and eyes. What is the probability of having five children, three with albinism and two with normal pigmentation? 25
4. Draw a labeled diagram of neuroendocrine structure in insects. Write the method of slide preparation of chick embryo obtained from egg and identify the following stages of chick embryos with proper reasons. 10+15


