M. Phil. Examination
April / May – 2003
Zoology : Paper - I
(Research Methodology)

Time: 3 Hours] [Total Marks: 100

NB: All questions carry equal marks
All questions are compulsory
Illustrate your answers with neat diagrams wherever necessary.

1. Describe principle, working and applications of transmission electron microscope.

OR

   b) Immunofluorescence.

2. Describe the application and principles of
   a) Atomic absorption spectrophotometer.
   b) Electron spin resonance.

OR

   b) TLC.

3. Write notes on: a) RIA and its application.
   b) Measurement of pH.

OR

   b) IRMA

   b) Contributions of Sanger, K. Mallis and Konrad Lorenz.

OR

   b) Image analysis.

5. Write short notes on any three of the following:
   a) ANOVA.
   b) Chi-square test.
   c) Resolution of a microscope.
   d) Autoradiography.
   e) Isoelectric focussing.
   f) In-situ hybridization.

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