

AA-3355
M. Phil. Examination
April / May – 2003
Zoology : Paper - I
(Research Methodology)

Seat No. _____

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

1. Describe: a) Cell-Cell hybridization.
b) Immunofluorescence.
2. Describe the application and principles of
a) Atomic absorption spectrophotometer.
b) Electron spin resonance.

OR

2. Describe: a) Northern blotting.
b) TLC.
3. Write notes on: a) RIA and its application.
b) Measurement of pH.

OR

3. Write notes on: a) Radioreceptor assay.
b) IRMA
4. Write briefly on: a) Preparation of a paper to publish in a Scientific Journal.
b) Contributions of Sanger, K. Mallis and Konrad Lorenz.

OR

4. Write briefly on: a) Tissue culture.
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.