

2022

M.Sc.

2nd Semester Examination

ZOOLOGY

PAPER—ZOO-295

(Practical)

ECOLOGICAL PRINCIPLES, BIOCHEMISTRY &
FIELD STUDY

Full Marks : 50

Time : 5 Hours

The figures in the margin indicate full marks.

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

1. (a) Draw the labeled sketch of a lux meter and mention the principle of measuring light intensity. Note down the reading of light intensity at given location commenting on the desirable range. (2+2)+3

Or

(Turn Over)

- (b) Write down the stepwise protocol and hypothetical observation for measuring Transparency in static water using Secchi disc with appropriate diagrams. Comment on the result. 5+2
2. Elaborate the methodology of estimating the MINIMUM SIZE of quadrat for assessing community structure of a habitat through Species area curve method. Plot your experienced data on a graph paper and conclude with your result. 6+2
3. (a) Draw a standard curve from the given data set. Estimate the concentration of protein samples provided.
- (b) Generate protein denaturation curve from the given sample. Draw and comment on your result. (3+5)+(5+2)
4. Submission of laboratory note book. 5
5. Field report & viva-voce. 10+5
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