

2018

Time : 2 hours

Full Marks : 40

Answer all questions

*The figures in the right-hand margin indicate marks**Candidates are required to answer in their own words as far as practicable*

Draw neat labelled diagrams wherever necessary

(ECOLOGY AND BIostatISTICS)

1. Define ecosystem. Explain the energy flow in an ecosystem. 14

Or

Write notes on any *two* of the followings :

- (i) Law of Tolerance 7 × 2
(ii) Gaia hypothesis
(iii) Natural ecosystem.

2. Write a note on source and control of environmental pollution. 13

Or

Write notes on any *two* of the followings :

- (i) Ozone depletion $6\frac{1}{2} \times 2$
(ii) Environmental auditing
(iii) Waste management.

3. Explain Student 't' test with suitable example. 13

Or

Write notes on any *two* of the followings :

- (i) Regression analysis $6\frac{1}{2} \times 2$
(ii) Chi-square test
(iii) Binomial distribution.