

2017

Time : 3 hours

Full Marks : 40

Answer **all** questions*The figures in the right-hand margin indicate marks*

Draw neat labelled diagrams wherever necessary

(ECOLOGY AND BIOSTATISTICS)

1. Describe the structure and dynamics of community ecology. 14

*Or*Write notes on any *two* : 7 × 2

- (i) Classification of ecosystem
- (ii) Liebig's law of minimum
- (iii) Structure of population ecology.

2. Define environmental pollution. What are their sources and their control ? 13

*Or*Write notes on any *two* : $6\frac{1}{2} \times 2$

- (i) Ozone depletion
- (ii) Biodiversity and its importance
- (iii) Environmental awareness programs.

3. What is analysis of variance ration test ? Explain with suitable example. 13

*Or*Write notes on any *two* : $6\frac{1}{2} \times 2$

- (i) Coefficient of regression
- (ii) Student *t*-test
- (iii) Poisson distribution.