competition

2. Write notes on the 2 C 0 C

(CBCs) b not integed to

(1st Semester) Whishelf (1)

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dynamics with prophical representation.
(Raymond)

Paper Code: ZOO.C-2: al la 1// .E

(Principles of Ecology)

Full Marks: 75
Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions

tion with special reference

Give an account on the history of ecology.
 Differentiate between autecology and synecology.

Write notes on the Glowing:

Discuss, in detail, the different levels of organization in an ecosystem. Add a note on Blackman's law of limiting factors. 12+3=15

L23/217

(Turn Over)

2. Write notes on the following:

7½×2=15

- (a) Population density
- (b) Natality (well as the line)

Or

Explain, in detail, the population growth dynamics with graphical representation.

15

3. What is population? Discuss population regulation based on density-dependent and density-independent factors. 1+7+7=15

Or

Describe the Lotka-Volterra equation for competition and predation. Add a note on the functional and numerical responses in predation.

10+5=15

4. Write a detailed account on community characteristics with special reference to species richness, dominance and diversity.

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5+5+5=15

Or

Write notes on the following:

 $7\frac{1}{2} \times 2 = 15$

- (a) Vertical stratification in pond and grassland communities
- (b) Ecological succession

L23/217

(Continued)

5. Write an essay on the types of ecosystems taking one example.

Or

Write notes on the following:

7½×2=15

- (a) Linear and Y-shaped food chains
- (b) Nitrogen cycle
