

**UNIVERSITY OF CALCUTTA**  
**CITY COLLEGE CENTER**  
**DEPARTMENT OF ZOOLOGY**  
**Theory Examination 2020 [Old Syllabus 2016]**  
**ZOOA, Part II**  
**Paper- 3, Unit- 2**  
(Full Mark 25)

**[Ecology, Biodiversity and Conservation]**

1. Answer any **four** 4×5 = 20
- (a) Define ecosystem
  - (b) Write two differences between predatory and detritus food chain
  - (c) What is food web?
  - (d) What do you mean by energy flows through an ecosystem
  - (e) Define bio-sphere reserve
  - (f) Give an example of bio-diversity hot spot in India
  - (g) Define natality
2. Answer any **one** 1×5 = 05
- (a) Differentiate between k-selected and r-selected species with example.
  - (b) Write about different components of a pond ecosystem.
  - (c) Mention two differences between National Park and Sanctuary.