



**Avinashilingam Institute for Home Science and Higher Education for Women**  
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)  
Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B  
Coimbatore - 641 043, Tamil Nadu, India

**Bachelor's Degree Examination – June 2021**  
**VI Semester**

**Class : III UG**  
**Major : Zoology**

**Time : 3 Hours**  
**Max. Marks : 100**

**18BZOC25 Environmental Biology**

**Part A**

**10×1=10**

**Choose the Correct Answer**

- The solid component of earth is
  - Atmosphere
  - Hydrosphere
  - Biosphere
  - Lithosphere
- Prolonged resting stage taken by animals during summer is.
  - Aestivation
  - Hibernation
  - Diapause
  - All the above
- Birth rate of a population is
  - Mortality
  - Natality
  - Dispersal
  - Dispersion
- 'J' shaped growth curve is exhibited by.
  - Yeast
  - Bacteria
  - Lemmings
  - None of the above
- Ecological niche refers to \_\_\_\_\_ of organization.
  - Functional status
  - Periodicity
  - Interdependence
  - None of the above
- If ecological succession begins in dry place, it is
  - Hydro sere
  - Meso sere
  - Xero sere
  - All the above
- Generally desert animals excrete...as their waste product.
  - Ammonia
  - Urea
  - Uric acid
  - Hippuric acid
- Pick out the burrowing animal from the following
  - Echidna
  - Proteus
  - c. Mabuiya
  - Varanus
- Draft EIA notification 2020 was done to amend EIA notification
  - 2002
  - 2004
  - 2006
  - 2008
- Chipko movements was hold in
  - Assam
  - Uttarakhand
  - Tripura
  - Meghalaya

**Part B**

**5 x 6 = 30**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 11.a. Enlist and explain the biological effects of light.  
(or)  
11.b. Illustrate phosphorous cycle with relevant sketch.
- 12.a. Give an account on measurements of population density.  
(or)  
12.b. Discuss the fluctuation of population in brief.
- 13.a. Give an account on the concept of climax.  
(or)  
13.b. Give an account on community stratification.
- 14.a. Examine the adaptations possessed by cave animals.  
(or)  
14.b. Emphasize the burrowing adaptations.
- 15.a. Write an account on methods of EIA.  
(or)  
15.b. Explain RIO summit and agenda.

**Part C**

**5 x 12 = 60**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 16.a. Discuss temperature as abiotic factor.  
(or)  
16.b. Emphasize nitrogen cycle with sketch. Add a note on nitrogen fixation.
- 17.a. Explain the dispersion and dispersal of population.  
(or)  
17.b. Give a detailed account on regulation of population.
- 18.a. Illustrate the structure of community.  
(or)  
18.b. Write an essay on ecological succession.
- 19.a. Write a detailed account on desert adaptations.  
(or)  
19.b. Discuss the first adaptations with examples.
- 20.a. Evaluate the steps in EIA, problems and potential solutions.  
(or)  
20.b. Write a detailed account on social forestry.

\*\*\*\*\*