

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Ag) 2005 Admission VI Semester Final Examination
October 2008

Chem 3205
Agro ecology and Environmental Pollution (2+1)

Time: 2½ hours

I. Objective type questions

Total marks: 60

Fill up the blanks

20X0.5 =10

- A1. ----- is an heavy metal pollutant from tannery industries
A2. ----- is an example for carnivore.
A3. Botanical garden is an example for ----- conservation of biodiversity.
A4. ----- is an example for epigeic earthworm.
A5. The functional role of an organism in an ecosystem is known as -----.

Give any one name of

- A6. Pollutant from automobiles.
A7. Phosphorus mobilizing fungi
A8. Organophosphorus pesticide.
A9. Slow release nitrogenous fertilizer.
A10. Composting micro-organism.

State whether true or false

- A11. Smog is one of the secondary air pollutants.
A12. Traditional farming methods are not eco-friendly.
A13. Usage of biofertilizers is one of the eco-friendly farming methods.
A14. Green plants are also known as transducers.
A15. Biogas production is one of the eco-friendly methods of waste disposal.

Expand the following abbreviations.

- A16. COD
A17. EDTA
A18. DDT
A19. CFC
A20. UNEP

II Give short answers for the following:

14X1 =14

- B1. Define Succession
B2. Define Food web
B3. Define Endangered species
B4. Define Commensalism

- B5. Define Autotrophs
- B6. Distinguish between population and community
- B7. Distinguish between renewable and non-renewable energy sources
- B8. Give an example for food chain
- B9. Name any one phytoplankton in aquatic ecosystem.
- B10. List out some names of insectivorous plants.
- B11. Distinguish between herbivore and carnivore.
- B12. Distinguish between green manure and green leaf manure.
- B13. What do you mean by nitrification.
- B14. What do you mean by bulky organic manures.

**III. Write short notes on the following.
Answer any eight questions only**

8X2 = 16

- C1. Ozone layer
- C2. Advantages of vermicomposting
- C3. Biological Oxygen Demand
- C4. Oxygen cycle
- C5. Automobile pollution
- C6. Detritus food chain
- C7. Mineralization
- C8. Saprotrophs
- C9. Crop rotation
- C10. Deforestation

IV. Write short essays on any five of the following.

5X4 = 20

- D1. Integrated Nutrient Management.
- D2. Hydrological cycle .
- D3. Write in detail about any one ecosystem
- D4. Explain in detail about the water pollution by Industries.
- D5. What are all the benefits of composting.
- D6. Explain in detail about the role of ozone layer and the ozone as a pollutant