



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Technology) 2022 Admission
I Semester Final Examination – March 2023

Swce.1101

Environmental Sciences and Disaster Management (1+1)

Marks: 50

Time: 2 hours

I Fill in the blanks

(10x1=10)

1. The term 'biocenosis' refers to _____.
2. The process of nitrogen fixation by bacteria does not take place in the presence of _____.
3. Oil derived from coal, oil shales or tar sands is called as _____.
4. _____ is the most abundant gas in the atmosphere.
5. Ozone depletion is mainly caused by the active _____ atoms generated from CFC in the presence of UV radiation.

Answer the following

6. Define energy flow.
7. Which is the largest ecosystem in the world?
8. Which is the driest ecosystem of the Earth?
9. From which tree 'Charcoal' is made of?
10. *Expand 'UNFCCC'.

II Write short notes on ANY FIVE of the following

(5x2=10)

1. What are the main functions of an ecosystem?
2. Write the four stages involved in hydrological cycle.
3. What are all the steps to control over population in India?
4. How does recycling save energy?
5. List the different causes of deforestation.
6. Who makes population projections?
7. What causes radioactive pollution?

III Answer ANY FIVE of the following

(5x4=20)

1. Write a note on renewable resources from marine ecosystem.
2. What are the components of an ecosystem? Write the categories of biotic components of an ecosystem.
3. Write a detailed note on water resources of India and how safe is our water at present?
4. What is deforestation and write a short note on effects of deforestation?
5. Write the impact of population growth on environment in India.
6. Discuss the ecological effects of eutrophication.
7. What is composting? Write the advantages and disadvantages of composting.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. What is the importance of biogeochemical cycle? Write in detail the biogeochemical cycle of nitrogen and carbon cycles with suitable flow chart.
2. What are air pollutants? Provide the details about different classification of air pollutants.
