



# MUTHAYAMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi, Accredited by NAAC & Affiliated to Anna University)  
Rasipuram - 637 408, Namakkal Dist., Tamil Nadu.

## Department of Chemistry Question Bank - Academic Year (2021-22)

Course Code & Course Name	:	21BSS12 – Environmental Science & Engineering
Name of the Faculty	:	
Year/Sem/Sec	:	

### Unit-I: ECOSYSTEM AND BIODIVERSITY

#### Part-A (2 Marks)

1. Define environmental science.(Jan 2006)
2. Define Biodiversity. (Dec 2012)
3. Mention any two importance of Environmental studies.(Dec 2008, 2009)
4. What is meant by Biome?(Dec 2007)
5. What are the functions of an ecosystem?
6. Define Endemic species.(Dec 2009)
7. Mention the classification of Biodiversity. (Jan 2018)
8. What is meant by Food web?(Dec 2009, Jan 2018)
9. State about the important services provided by the ecosystem. (Dec 2016)
10. Mention the different types of ecosystem
11. What are the components of an ecosystem?
12. Define endemic and endangered species. (Dec 2016, June 2017)
13. Define producers and consumer with an example.
14. Write any two significance of biodiversity.
15. Mention the classification of biodiversity.
16. Different between producer and consumers. (June 2017)
17. What is Red data book?
18. Define in-situ conservation
19. What are the hot spots of biodiversity? (Jan 2019)
20. List out the various threats of biodiversity.

#### Part-B (16 Marks)

1. (i) What is meant Biodiversity? Explain values of Biodiversity with examples. (Dec 2008, Jan 2018) (8)  
(ii) Explain about the conserve the biodiversity. (May 2006, Dec 2016, Jan 2018, Jan 2019) (8)

2. (i) Describe briefly about hot spot of biodiversity? (Dec 2007) (8)
- (ii) Discuss about the energy flow in the ecosystem. (Dec 2005) (8)
3. (i) Explain the structure and functions of an Ecosystem. (Jan 2019, Jan 2018) (8)
- (ii) Write a note on (a) Food chain, (b) Food web and (c) Food pyramid (June 2017) (8)
4. (i) Explain the structure and component of Ecosystem?(Dec 2006) (8)
- (ii) Write about threats to biodiversity? (Dec 2016, June 2017, Jan 2018, Jan 2019) (8)
5. (i) Define biodiversity. What are the classifications of biodiversity? (Dec 2008) (8)
- (ii) Discuss about the endangered and endemic species of India. (Dec 2008) (8)
6. (i) Discus in detail about the ecological succession. (Dec 2016) (8)
- (ii) What is meant Biodiversity? Explain values of Biodiversity with examples. (Dec 2008, Jan 2018) (8)

## **Unit-II : NATURAL RESOURCES**

### **Part-A (2 Marks)**

1. What are the renewable and non-renewable energy resources? Give examples (Dec 2009)
2. Define water logging? (Jan 2019)
3. Mention the types of Forest?
4. What are the causes of Deforestation? (Dec 2008, Jan 2018)
5. Define Hydrological cycle.
6. Write note on conflicts over water?
7. Explain Overgrazing?(Dec 2006)
8. What is Eutrophication?(Dec 2009)
9. What is mean by Soil erosion?(Dec 2008)
10. What is Landslides?(May 2008)
11. Define the term Desertification.(Dec 2008)
12. What are the World food problems?
13. Write note on the Effect of dams on tribal? (Jan 2006, June 2017)
14. What is Blue Baby Syndrome?
15. Write a note on the effect of Timber extraction?
16. Define the term soil erosion. (June 2017)
17. Write the consequences of over exploitation of forest resources. (Dec 2016)
18. Define floods.
19. Define Traditional Agriculture.
20. What is land degradation?

### **Part-B (16 Marks)**

1. (i) What are the major causes of deforestation? Discuss its consequences?( June 2017, Jan 2018) (8)
- (ii) Explain the adverse environmental impacts of Modern agriculture. (Dec 2009, Dec 2016, June 2017, Jan 2018) (8)
2. (i) What is the equitable use of resources for sustainable lifestyles? (8)
- (ii) Mention the role of individual in the conservation of Natural resources (June 2017, Jan 2019) (8)
3. (i) Discuss the Dams and their effects on Forests and tribal people?(June-2013, Jan 2019) (8)
- (ii) Define soil erosion? What are the causes and control of soil erosion? (Jan 2018) (8)
4. (i) What are the uses or benefits of forest?(Dec 2009) (8)
- (ii) Explain about the over-utilization of water? (Dec 2008, June 2017) (8)
5. (i) What are the sources, effects of desertification? And how can be eradicated?(Jan 2018, Jan 2019) (8)
- (ii) Define Land degradation. What are the causes and control of land degradation? (June-2013, Jan 2019) (8)
6. (i) What are floods and droughts? Write their impacts. (Dec 2016) (8)
- (ii) Explain the issues arise due to the problems with food resources. (Dec 2016) (8)

### **Unit-III : ENVIRONMENTALPOLLUTION**

#### **Part-A (2 Marks)**

1. What are the types of Pollution?
2. Define Air pollution and its effects? (Jan 2008, Jan 2019)
3. Mention any two sources of Nuclear Hazards?
4. What is meant by disaster management? (Jan 2018)
5. Write any two control measures of Marine pollution?
6. What are the point and non-point source of water pollution? (Jan 2018)
7. What is meant by nuclear hazards?
8. What are the effects of water pollution?
9. Write any two control measures of Noise pollution?(Jan 2007)
10. What is meant by BOD & COD & it's significance(Dec 2008)
11. Write down any tow preventive measures to be taken during cyclone. (June 2017)
12. Mention the causes and consequences of landslide. (Dec 2016)
13. What are the different sources of air pollution?
14. Define photo chemical smog.(Dec 2006)
15. Define water pollution.(Jan 2006)
16. With example, state about thermal pollution. (Dec 2016)
17. State any two effect of noise pollution on human health. (June 2017)
18. Define noise pollution(Jan 2006)

19. What are solid wastes? (Dec 2006)
20. What are the causes of marine pollution?(Jan 200

**Part-B (16 Marks)**

1. (i) Describe the sources, effects and control measures of Marine pollution?(Dec 2009) (8)
- (ii) Describe about the Solid waste management. (Dec 2012, Dec 2016, Jan 2018, Jan 2019) (8)
2. (i) What are the source, effect and control measures of Thermal pollution?(Dec 2009) (8)
- (ii) Explain about various methods to control Air pollution.(May 2008, Dec 2016, Jan 2018) (8)
3. (i) Explain various Disaster management of Flood, Landslide, Earthquake, and Cyclone.(Dec 2016, Jan 2019) (8)
- (ii) Discuss the role of an individual in controlling pollution.(Dec 2009) (8)
4. (i) Describe the sources, effects and control measures of Air pollution?(Dec 2009) (8)
- (ii) Explain the methods of disposal of municipal solid waste? (Dec 2009, June 2017, Jan 2018) (8)
5. (i) Describe the sources, effects and control measures of Water pollution? (Dec 2008, Dec 2016, Jan 2019) (8)
- (ii) Discuss about the process of solid waste management? (Dec 2012) (8)
6. (i) Write an essay about the environmental impact of the automobiles land list out your suggestions to control this type of pollution. (June 2017) (8)
- (ii) Discuss the source and ill effect of soil pollution and suggest the various control measures to curb the soil pollution. (June 2017) (8)

**Unit-IV : SOCIAL ISSUES AND ENVIRONMENT**

**Part-A (2 Marks)**

1. Define the term Sustainable development. (Dec 2008, Dec 2009, June 2017, Jan 2019)
2. Mention any two factors affecting Water Shed Management?
3. What are the effects of Acid rain?(Dec 2006)
4. What is meant by Ozone layer depletion?
5. What are the effects of Global warming? (June 2017, Jan 2019)
6. Define Resettlement.
7. Write any two important features of Forest Act? (Jan 2018)
8. What are the objectives of Public awareness?(Dec 2009)
9. Define Rain water harvesting(Dec 2008, May 2008)
10. What is meant by Environmental ethics?
11. What are the control measures of Nuclear holocaust? (Dec 2016)
12. Define Rehabilitation.
13. Write any two important features of Air Act and Water Act?
14. Highlight the urban issues related to energy. (Dec 2016)

15. Define Ozone layer depletion
16. What is meant by Nuclear winter?
17. What are the three important components of sustainable development?
18. Define urbanization
19. What are the impacts of human activities on watershed?
20. Name some of the factors causing relocation of people.

**Part-B (16 Marks)**

1. (i) Write objectives, concept, methods and advantages of Rain water harvesting?(Dec 2008, Dec 2016, June 2017, Jan 2019) (8)
- (ii) Explain the Environment protection act, Air act, Water act? (Dec 2009) (8)
2. (i) Explain briefly on nuclear accident and Holocaust? (8)
- (ii) Write note on causes effects of Global warming, Ozone layer depletion? (Dec 2008) (8)
3. (i) Explain the aspects and significance of Sustainable development? (Dec 2016, Jan 2018) (8)
- (ii) What are the objectives & methods to create a public awareness? (8)
4. (i) Write objectives, concept, methods and advantages of Water shed management? (Dec 2008, Jan 2018, Jan 2019) (8)
- (ii) Explain about resettlement and rehabilitation? (8)
5. (i) Discuss about the acid rain and climatic change? (Dec 2009, Dec 2016) (8)
- (ii) Discuss about Environmental ethics? (Dec 2008, Jan 2019) (8)
6. (i) Write the role of NGOs and the importance of public awareness. (Dec 2016) (8)
- (ii) Explain in detail the duties and responsibilities of Central pollution control boards and state pollution control boards. (June 2017) (8)

**Unit-V : HUMAN POPULATION AND THE ENVIRONMENT**

**Part-A (2 Marks)**

1. Compare population increase and population explosion. (Dec 2016, Jan 2018, Jan 2019)
2. What are the objectives of Family welfare programme?(Dec 2009)
3. What is meant by population density?
4. What are the objectives of Women welfare?
5. Write any two Factors influencing mode of transmission of HIV.
6. Define value education(Dec 2009)
7. What are the causes of Population explosion?(Dec 2008, Dec 2009)
8. Define the term NIMBY syndrome?
9. What is meant by Human rights? (Jan 2018, Jan 2019)
10. State and causes of population explosion. (June 2017)
11. What are the objectives of Women welfare?

12. Write any 2 effect of population explosion?(Dec 2009)
13. What is meant by HIV/AIDS?(Dec 2009)
14. Define immigration and emigration?
15. Write any 3 effect of HIV/AIDS?
16. Distinguish between HIV and AIDS. (June 2017)
17. Comment on the need of women and children welfare. (Dec 2016)
18. What is meant by women welfare?
19. Write any two objectives of child welfare?
20. Write any two Factors not influencing mode of transmission of HIV.

**Part-B (16 Marks)**

1. (i) Write a note on Population growth and Variation among population.(Dec 2008) (8)
- (ii) State objectives of Women welfare programme in India. Describe briefly the various schemes launched for women welfare in India. (June 2017) (8)
2. (i) Explain the role of Information technology in Environment & Human health.(June 2017, Jan 2018, Jan 2019) (8)
- (ii) Write a note on Human rights. Explain its salient feature. (Nov-2011, Dec 2016) (8)
3. (i) Discuss about HIV/ AIDS?(Dec 2009, Nov-2011) (8)
- (ii) Explain about Population explosion and Population growth? (Dec 2008) (8)
4. (i) Write down the objectives of Family Welfare Programme (Dec 2009, Dec 2016, June 2017, Jan 2019) (8)
- (ii) Explain about the environment and human health? (Dec 2008) (8)
5. (i) Write a note on Value education? Explain the result of value education. (Dec 2009, Dec 2016) (8)
- (ii) Explain the various issues and measures for Child welfare? (Dec 2009) (8)

**Course Faculty**

**HoD**