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|  | **GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY**  (**AN AUTONOMOUS INSTITUTION**)  **(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)**  **(Accredited by NAAC with “A” Grade, NBA (EEE,ECE &ME) & ISO9001:2008CertifiedInstitution)** |
| **QUESTIONBANK(DESCRIPTIVE)**  **Subject Name with Code: ENVIRONMENTAL ECONOMICS & 22A0150T Course & Branch: B.Tech- CS, DS**  **Year& Semester: III & II Regulation: RG22** | |

**UNIT - I**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
| **1.** | Give a note on backstop technology. | **L1 CO1 2M** |
| **2.** | Write the different forms of capital in the view of sustainable development. | **L1 CO1 2M** |
| **3.** | What type of studies are included in environmental economics? | **L1 CO1 2M** |
| **4.** | Define non-renewable energy. | **L1 CO1 2M** |
| **5.** | List out core elements of sustainable development | **L1 CO1 2M** |
| **6.** | List out some of SDG’s. | **L1 CO1 2M** |
| **7.** | List out some of global initiatives on sustainable development | **L1 CO1 2M** |
| **8.** | Define economic environment | **L1 CO1 2M** |
| **9.** | List out types of economic system | **L1 CO1 2M** |
| **10.** | Define EKC | **L1 CO1 2M** |
| **Descriptive Questions (Long)** | | |
| **11.** | Explain need and global issues related to sustainable development | **L2 CO1 12M** |
| **12.** | Write a brief note on   1. Backstop technology 2. Property research 3. Conversion of uncertainity | **L2 CO1 12M** |
| **13.** | Explain Hotellings theory in optimal extraction of non renewable resources | **L2 CO1 12M** |
| **14.** | Explain implication of environment Kuznet curve using a case study | **L2 CO1 12M** |
| **15.** | Explain the concept of sustainable development | **L2 CO1 12M** |
| **16.** | Elaborate on how environmental economics plays a crucial role in sustainable  development. | **L2 CO1 12M** |
| **17.** | Justify why environmental quality significantly affects in economics of  energy. | **L3 CO1 12M** |
| **18.** | Explain in brief economy and environment inter-linkages. | **L2 CO1 12M** |
| **19.** | Define energy and explain how energy is an important factor for economic  development | **L1 CO1 12M** |
| **20.** | What are the causes for the scarcity in non-renewable energy? | **L2 CO1 12M** |

**UNIT - II**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
| **1.** | Define environmental degradation | **L1 CO2 2M** |
| **2.** | Give an appropriate example of Equi-marginal principle. | **L3 CO2 2M** |
| **3.** | What is policy failure | **L2 CO2 2M** |
| **4.** | List out human factors effect environmental degradation | **L1 CO2 2M** |
| **5.** | Define pigovian tax | **L1 CO2 2M** |
| **6.** | Define positive externality | **L1 CO2 2M** |
| **7.** | List out types of environmental degradation | **L1 CO2 2M** |
| **8.** | Define market failure | **L1CO2 2M** |
| **9.** | Write equation for equal marginal principle | **L1 CO2 2M** |
| **10.** | List out natural factors effect environmental degradation | **L1 CO2 2M** |
| **Descriptive Questions (Long)** | | |
| **11.** | Explain Environmental degradation with help of flow chart and solutions to environmental degradation | **L2 CO2 12M** |



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| **12.** | Explain externality and types of externality in detail | **L2 CO2 12M** |
| **13.** | What are corrective instruments for externality and how can we identify externality | **L2 CO2 12M** |
| **14.** | Explain Equi marginal principle | **L2 CO2 12M** |
| **15.** | Explain How economists measure externality and how externality will effect economy. | **L2 CO2 12M** |
| **16.** | What are the causes and effects of environmental degradation?Explain | **L2 CO2 12M** |
| **17.** | Give a detailed economic analysis on environmental degradation | **L3 CO2 12M** |
| **18.** | Discuss in brief the concepts of policy failure in environmental degradation. | **L2 CO2 12M** |
| **19.** | With one example explain how developmental activity is responsible for environmental degradation | **L2 CO2 12M** |
| **20.** | Brief the concept of:   1. Policy failure. 2. Externalities. 3. Market failure. | **L2 CO2 12M** |

**UNIT - III**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
| **1.** | How economics is useful for the study of pollution | **L1 CO3 2M** |
| **2.** | What is one officer-one ward programme? | **L1 CO3 2M** |
| **3.** | Give a brief note economics of pollution. | **L1 CO3 2M** |
| **4.** | How effective is bargaining solution to manage pollution? | **L1 CO3 2M** |
| **5.** | Define Economics of optimal pollution | **L1 CO3 2M** |
| **6.** | List out some of bargaining solutions in economics of pollution | **L1 CO3 2M** |
| **7.** | Define enforcement in regulations | **L1 CO3 2M** |
| **8.** | How public participation will impact to reduce economics of pollution | **L1 CO4 2M** |
| **9.** | Abbreviate SMC and PMC | **L1 CO4 2M** |
| **10.** | Define revenue use | **L1 CO4 2M** |
| **Descriptive Questions (Long)** | | |
| **11.** | Explain marginal social cost and benefit of pollution with examples | **L2 CO3 12M** |
| **12.** | Explain regulations in environmental economics | **L2 CO3 12M** |
| **13.** | Explain monitoring and enforcement of economics of pollution | **L2 CO3 12M** |
| **14.** | Explain market interventions manage economics of pollution | **L2 CO3 12M** |
| **15.** | Write a note on economic effects by pollution | **L1 CO3 12M** |
| **16.** | In context of economics of pollution discuss about:   1. Optimal pollution. 2. Regulation 3. Monitoring and enforcement. | **L2 CO3 12M** |
| **17.** | Explain in brief about optimal pollution and its regulation. | **L2 CO3 12M** |
| **18.** | Explain the terms taxes, subsidies, in managing the pollution through market intervention | **L2 CO3 12M** |
| **19.** | List and explain the economic losses by pollution. | **L2 CO4 12M** |
| **20.** | Give your view on how   1. Economy affected by pollution 2. Role of economic in pollution control. | **L1 CO4 12M** |

**UNIT - IV**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
| **1.** | Define resource. | **L1 CO4 2M** |
| **2.** | Give any four examples for environmental resources. | **L1 CO4 2M** |
| **3.** | Narrate your view on different environmental damages. | **L2 CO4 2M** |
| **4.** | Brief the concept of Total Economic Value | **L2 CO4 2M** |
| **5.** | List out costs in environmental project | **L1 CO4 2M** |
| **6.** | Define loss of ecosystem services | **L1 CO4 2M** |
| **7.** | Define discounting in cost benefit analysis | **L1 CO4 2M** |
| **8.** | Define option values | **L1 CO4 2M** |



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| **9.** | How marginal cost is used in cost benefit analysis | **L2 CO5 2M** |
| **10.** | Define existence values | **L1 CO5 2M** |
| **Descriptive Questions (Long)** | | |
| **11.** | Explain 8 terms used in cost benefit analysis for environmental economics | **L2 CO4 12M** |
| **12.** | Write brief note on   1. Existence value 2. Bequest value | **L2 CO4 12M** |
| **13.** | Write brief note on   1. Contingent Valuation Method 2. Revealed preference method | **L2 CO4 12M** |
| **14.** | Explain Discounting. | **L2 CO4 12M** |
| **15.** | Explain alternative approaches to valuation | **L2 CO4 12M** |
| **16.** | Write a note on economic value of environmental resources. | **L1 CO4 12M** |
| **17.** | Explain total economic value in detail with flow chart | **L2 CO4 12M** |
| **18.** | Elaborate environmental valuation. | **L2 CO5 12M** |
| **19.** | Explain Cost-benefit analysis in detail | **L2 CO5 12M** |
| **20.** | Write a note on economical value of environmental damage. | **L2 CO5 12M** |

**UNIT - V**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
| **1.** | What is value of biodiversity? | **L1 CO5 2M** |
| **2.** | Define Biodiversity. | **L2 CO5 2M** |
| **3.** | Differentiate between Individual species and Diversity of species | **L2 CO5 2M** |
| **4.** | Define ecosystem services | **L2 CO5 2M** |
| **5.** | Define cost of biodiversity loss | **L2 CO5 2M** |
| **6.** | Define endangered species | **L2 CO6 2M** |
| **7.** | List types of conservation of biodiversity | **L1 CO6 2M** |
| **8.** | List out economic benefits of climate change | **L1 CO6 2M** |
| **9.** | List out economic losses and challenges of climate change | **L1 CO6 2M** |
| **10.** | Define stern report | **L2 CO6 2M** |
| **Descriptive Questions (Long)** | | |
| **11.** | Write brief note on   1. Ecosystem services 2. Economic Incentives for Conservation | **L1 CO5 12M** |
| **12.** | Explain bio diversity and conservation policy at International Level. | **L2 CO5 12M** |
| **13.** | Write summary of stern report | **L2 CO5 12M** |
| **14.** | Explain strategies proposed by economists for climate change | **L2 CO6 12M** |
| **15.** | Explain bio diversity and conservation policy at National Level | **L2 CO6 12M** |
| **16.** | Write a note on principles of economics of biodiversity. | **L2 CO6 12M** |
| **17.** | Explain the economics of climate change as per stern report | **L2 CO6 12M** |
| **18.** | Explain in brief valuing the individual species and diversity of species. | **L2 CO6 12M** |
| **19.** | Explain how climate change will influence on economics | **L2 CO6 12M** |
| **20.** | Write brief note on   1. Environmental Impact Assessment (EIA) 2. Global Environmental Funds and carbon pricing | **L2 CO6 12M** |

Signature of the Staff:

Signature of Department Academic Committee Member 1: Signature of Department Academic Committee Member 2: Signature of Department Academic Committee Member 3: