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| Image result for adamas university logo | **ADAMAS UNIVERSITY**  **END-SEMESTER EXAMINATION: JANUARY 2021**  (Academic Session: 2020 – 21) | | |
| **Name of the Program:** | **BCA** | **Semester:** | I |
| **Paper Title:** | Environmental Science | **Paper Code:** | SGY31111 |
| **Maximum Marks :** | 50 | **Time duration:** | 3 hours |
| **Total No of questions:** | **13** | **Total No of Pages:** | 1 |
| *(Any other information for the student may be mentioned here)* | Answer all questions from section A (5x2 = 10), Any four from section B (4x5 = 20) and any two from section C (2x10 = 20) | | |

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| **SECTION A (Answer All Questions)** | | | |
| 1. | What do you mean by the term ecosystem? What is the importance of ecosystem on our lives? | E | CO2 |
| 2 | What is the composition of biogas? | U | CO3 |
| 3 | What is acid rain? | R | CO1 |
| 4 | How does deforestation affect global warming? | An | CO5 |
| 5 | What is eutrophication? | U | CO1 |
|  | **SECTION B (**Attempt any **four questions)** | | |
| 1. | How can aquatic ecosystems be classified based on salinity? How are coastal and estuarine regions affected by cyclonic storms vis a vis salinity? (3+2 = 5) | U | CO1 |
| 2 | Write a short note on conservation of biodiversity. | R | CO3 |
| 3. | Where is the ozone layer situated? Discuss the role of chlorofluorocarbons in the ozone layer depletion. (1+4) | R | CO2 |
| 4. | What is the source of geothermal energy? Discuss the disadvantages of geothermal energy. (2+3=5) | R | CO4 |
| 5. | A sample of sewage water has 4-day 20°C BOD value of 60% of the final. Find the rate constant per day. | E | CO5 |
| **SECTION C (**Attempt any **two questions)** | | | |
| 1. | Demonstrate the role of greenhouse houses on “Global Warming”? Discuss the effects of global warming. (5+5=10) | U | CO2 |
| 2. | Explain hydroelectric power generation in a hydroelectric power plant with a proper diagram mentioning the energy conversion principle. Discuss advantages and disadvantages of hydroelectric power. (5+5=10) | R | CO3 |
| 3. | How are BOD and DO related to each other once a water body is polluted by effluent rich in organic matter (considering effluent discharge occurs only once and not repeated). Draw the oxygen sag curve. (5+5 = 10) | Ap | CO3 |