Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **18AG2015** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ENVIRONMENTAL STUDIES AND DISASTER MANAGEMENT** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | | |
| 1. | | Write the composition of biogas. | CO1 | 1 |
| 2. | | Name the symptom caused by excess of nitrate in drinking water. | CO1 | 1 |
| 3. | | First Earth Summit was held in the year \_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 4. | | Which is the highest dam in India? | CO1 | 1 |
| 5. | | Name the leader of Chipko movement. | CO1 | 1 |
| 6. | | India uses 90% of water for \_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 7. | | First Indian Joint Forest Management meeting was held at West Bengal in the year \_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
| 8. | | What is an ecosystem? | CO2 | 1 |
| 9. | | Net primary productivity per unit area is maximum in \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 10. | | Name the darker zone in sea where light penetration is neglible or aphotic region of sea. | CO2 | 1 |
| 11. | | Define ecological succession. | CO2 | 1 |
| 12. | | What is called as Eutrophication? | CO2 | 1 |
| 13. | | Define Biomagnification. | CO2 | 1 |
| 14. | | Differentiate between ex-situ and in- situ conservation. | CO2 | 1 |
| 15. | | Which chemical is the causative agent for Bhopal gas tragedy? | CO3 | 1 |
| 16. | | GIS is a technique of superimposing \_\_\_\_\_\_\_\_\_\_ data using digital information. | CO3 | 1 |
| 17. | | Underground point of origin of earthquake is called as \_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 18. | | [Eye is a region of mostly calm weather at the center of strong \_\_\_\_\_\_\_\_\_\_.](https://en.wikipedia.org/wiki/Tropical_cyclone) | CO3 | 1 |
| 19. | | The World Environment Day is celebrated on \_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 20. | | Earthquakes are measured using the device \_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Elaborate C cycle with a diagram. | CO1 | 5 |
| 22. | Discuss the environmental impacts of ground water depletion. | CO1 | 5 |
| 23. | Explain the major causes and consequences of soil erosion. | CO1 | 5 |
| 24. | Discuss the environmental impacts of mining. | CO1 | 5 |
| 25. | Define pollution and list out atmospheric pollutants. | CO2 | 5 |
| 26. | What are the causes of global warming and its implications on environment? | CO2 | 5 |
| 27. | Write short notes on Biomaganification and Biological Oxygen Demand. | CO2 | 5 |
| 28. | Briefly discuss on *Minamata*  and *Itai-Itai* disease. | CO2 | 5 |
| 29. | Write about management of floods and cyclones. | CO3 | 5 |
| 30. | Discuss about prediction softwares in disaster management. | CO3 | 5 |
| 31. | Explain any one of man-made disaster. | CO3 | 5 |
| 32. | Explain an earthquake case study in India. | CO3 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Elaborate the environmental impacts due to modern agriculture. | CO1 | 15 |
| b. | Explain about renewable and non-renewable energy resources. | CO1 |
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| 34. | a. | Illustrate the structure and function of an ecosystem with diagrams. | CO2 | 15 |
| b. | Explain in detail the biogeographical zones of India and the value of biodiversity. | CO2 |
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| 35. | a. | Explain in detail the National disaster management framework. | CO3 | 15 |
| b. | Discuss the Disaster Management Planning and Tools. | CO3 |