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

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**End Semester Examination – Nov/Dec – 2018**

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| **Code : 17CE2046** | |  | **Duration :** | | **3hrs** | |
| **Sub. Name : GLOBAL CLIMATE CHANGE AND ITS IMPACT** | |  | **Max. marks :** | | | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | | Name any two greenhouse gases. | CO1 | 1 |
| b. | | Identify the layer where the Ozone is present. | CO1 | 1 |
| c. | | Define urban heat islands. | CO1 | 2 |
| d. | | Explain Miller Urey Experiment. | CO2 | 2 |
| e. | (i) | Describe any four Paleo Indicators of Climate change. | CO1 | 7 |
| (ii) | Explain the three stages of the Atmosphere and the chemical elements present in it. | CO2 | 7 |
| (OR) | | | | | |
| 2. | a. | | In which place, the Day Zero has been announced? | CO1 | 1 |
| b. | | State the radius of the Earth. | CO1 | 1 |
| c. | | Define Paleo Indicator. | CO2 | 2 |
| d. | | Enlist the factors affecting the Global energy balance. | CO1 | 2 |
| e. | | Name the four layers of Earth with its respective depth. | CO1 | 5 |
|  |  | | Explain the sustainable development and suggest some tips for the control of climate change. | CO2 | 9 |
|  |  | |  |  |  |
| 3. | a. | | Name the main food of the marine food chain. | CO2 | 1 |
| b. | | Name the place in India where the sunset is recorded first. | CO2 | 1 |
| c. | | Define Monsoon Climate. | CO2 | 2 |
| d. | | List any three factors affecting the global climate. | CO2 | 2 |
| e. | | Explain the factors affecting the desert climate. | CO2 | 14 |
| (OR) | | | | | |
| 4. | a. | | Identify in which place, the Ozone hole is located. | CO1 | 1 |
| b. | | Name the place in which the world’s highest rainfall is recorded. | CO1 | 1 |
| c. | | List any two impacts of climate change in Antarctica. | CO1 | 2 |
| d. | | Define Isobar. | CO2 | 2 |
| e. | | Explain the factors affecting the polar climate. | CO2 | 14 |
|  |  | |  |  |  |
| 5. | a. | | Judge the change in temperature with increase in altitude. | CO1 | 1 |
| b. | | Name the atmospheric circulation cell in Mid-latitude region | CO3 | 1 |
| c. | | Distinguish between Hurricane and Cyclone. | CO2 | 2 |
| d. | | Write a note on global ocean circulation. | CO3 | 2 |
| e. | | Explain Global energy balance and the energy budget with neat sketch. | CO2 | 14 |
| (OR) | | | | | |
| 6. | a. | | Recognize the direction of the rotation of the Earth. | CO1 | 1 |
| b. | | Name the atmospheric circulation cell in the Tropical region. | CO3 | 1 |
| c. | | Define Plate Tectonics | CO3 | 2 |
| d. | | Arrange the given carbon sinks based on their carbon level.   1. Soil 2. Rocks 3. Atmosphere 4. Sea | CO3 | 2 |
| e. | | Brief about the four major sinks of Carbon with sketch. | CO3 | 10 |
|  | | Name the four different shapes of volcanoes. | CO2 | 4 |
|  |  | |  |  |  |
| 7. | a. | | Give the name of process where the pollutant concentration increases in a single species. | CO4 | 1 |
| b. | | Give the major cause of wild fire. | CO4 | 1 |
| c. | | Define El-Nino and La-Nina. | CO4 | 2 |
| d. | | Write a note on global warming. | CO4 | 2 |
| e. | | Discuss the following impacts caused by the climate change:   1. Southern oscillation 2. Tornadoes 3. Droughts | CO4 | 14 |
| (OR) | | | | | |
| 8. | a. | | Predict the main cause of Nuclear winter. | CO4 | 1 |
| b. | | Give the name of process where the pollutant concentration increases in a serious of species. | CO4 | 1 |
| c. | | Write a note on ozone depletion. | CO4 | 2 |
| d. | | Name any two major causes for the sea level rise. | CO4 | 2 |
| e. | | Discuss the following impacts caused by the climate change:   1. Wildfires 2. Thunderstorms 3. Extreme weather events | CO4 | 14 |
|  | | |  |  |  |
|  | | | **Compulsory**: |  |  |
| 9. | a. | | Name any one International agreements that has been made for Climate change. | CO1 | 1 |
| b. | | Infer the energy increasing rate at present. | CO1 | 1 |
| c. | | Give any two tips for conservation of energy. | CO2 | 2 |
| d. | | Describe the energy efficiency. | CO6 | 2 |
| e. | (i) | Explain the role of Government, industries and individuals in controlling the climate change. | CO5 | 7 |
| (ii) | Write a note on CDM concept and carbon finance | CO5 | 7 |