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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2017**

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| **Code :** | **15CE2002** | **Duration :** | **3hrs** |
| **Sub. Name :** | **WATERSHED MANAGEMENT** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Describe the different characteristics of watershed. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | List out the principles of watershed management. | CO1 | 10 |
| b. | Recall the watershed development objectives. | CO2 | 10 |
|  |  |  |  |  |
| 3. |  | Analyse any three aspects of morphometric analysis. | CO3 | 20 |
| (OR) | | | | |
| 4. | a. | Discuss the causes of deterioration of watershed in today’s context. | CO2 | 8 |
|  | b. | Enumerate the ill effects of Deforestation in general and discuss in detail with respect to erosion. | CO2 | 12 |
|  |  |  |  |  |
| 5. | a. | Demonstrate with a neat sketch Rainwater harvesting from the roof top. | CO2 | 10 |
|  | b. | Summarize the advantages and disadvantages of roof top water harvesting. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Reproduce the indigenous water harvesting techniques. | CO2 | 10 |
|  | b. | State the effect of Sand mining and sedimentation in water bodies. | CO2 | 10 |
|  |  |  |  |  |
| 7. |  | Distinguish in detail about the impact of modern agricultural practices on our soil and surface and ground water resources. | CO2 | 20 |
| (OR) | | | | |
| 8. | a. | Infer the significance of DEM in watershed modeling. | CO1 | 8 |
|  | b. | Appraise the steps involved in watershed modeling. | CO1 | 12 |
|  | |  |  |  |
|  | | **Compulsory:** |  |  |
| 9. |  | Compile the indicators of a watershed development project? Discuss the methods for its evaluation. | CO2 | 20 |

ALL THE BEST