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 – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14BT3014** | **Duration :** | **3hrs** |
| **Sub. Name :** | **Research Methodology** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Write in detail about the importance of sample design and its types with suitable examples | CO2 | 20 |
| (OR) | | | | |
| 2. | a. | Explain in detail about the importance of measurement scales, classification and its impact on research. | CO2 | 20 |
| 3. | a. | Enumerate the importance and different methods of data collection in research. | CO2 | 20 |
| **(OR)** | | | | |
| 4. | a. | The following data are the height of 11 students. Calculate standard Deviation.  60, 61, 62, 63, 64, 70, 72, 70, 74, 80, 85 | CO1 | **10** |
|  | b. | Find the coefficient of correlation between the age of husbands (X) and age of wives (Y)   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | X | 23 | 27 | 28 | 28 | 29 | 30 | 31 | 33 | 35 | 36 | | Y | 18 | 20 | 22 | 27 | 21 | 29 | 27 | 29 | 28 | 29 | | CO1 | **10** |
| 5. | a. | Write in brief about  Impact factor of journals | CO3 | 10 |
|  | b. | Report writing with suitable examples | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Give a brief account on various steps involved in thesis writing with necessary examples | CO3 | 20 |
| 7. | a. | Explain in detail the different levels of bio-safety and its importance in modern research in biotechnology | CO2 | 20 |
| (OR) | | | | |
| 8. | a. | Write in detail about national regulations of human and animal research and its ethics with suitable examples | CO3 | 20 |
|  | | Compulsory: |  |  |
| 9. | a. | Give a detailed account on various steps involved in research process and design. | CO2 | 20 |

ALL THE BEST