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 :** | **14BT2046** | **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. | List of out the types research. | CO 1 | 8 |
| b. | What is analytical type of research? | CO 1 | 6 |
| c. | How will you differentiate applied and basic research into three groups? | CO 1 | 6 |
| (OR) | | | | |
| 2. | a. | Write in detail about conceptual and empirical research. | CO 1 | 7 |
| b. | How will you differentiate applied and basic research into three groups? | CO 1 | 7 |
| c. | How will you design objectives for research? | CO 1 | 6 |
| 3. | a. | Write short notes in research problem? | CO 1 | 5 |
|  | b. | List out the steps provides a useful procedural guideline regarding the research process. | CO 1 | 10 |
|  | c. | Discuss about the good characteristics of research. | CO 1 | 5 |
| (OR) | | | | |
| 4. | a. | Explain about the criteria for good research. | CO 1 | 10 |
|  | b. | List out the stages of literature review. | CO 1 | 10 |
| 5. | a. | Explain about the purpose of literature search. | CO 1 | 5 |
|  | b. | Define abstract. | CO 1 | 5 |
|  | c. | What is citation? | CO 1 | 5 |
|  | d. | Write short notes on keywords. | CO 1 | 5 |
| (OR) | | | | |
| 6. | a. | Describe the characteristics of hypothesis. | CO 2 | 10 |
|  | b. | Explain the importance of hypothesis in research. | CO 2 | 5 |
|  | c. | Write short notes on : Manuscript. | CO 2 | 5 |
| 7. | a. | Calculate the impact factor for the following journal based on the data given below  A journal obtained 109 citations from the total of 271 articles published in a year | CO 2 | 4 |
|  | b. | List out the online search engines available to research articles in internet. | CO 2 | 4 |
|  | c. | Explain about the role of survey, measurement and scaling in the research. | CO 2 | 12 |
| (OR) | | | | |
| 8. | a. | Discuss the difference between clinical research and controlled clinical trials. | CO 2 | 8 |
|  | b. | Write short notes on ANOVA. | CO 2 | 4 |
|  | c. | Define: Mean, Median, Mode and Standard deviation. | CO 2 | 8 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Describe the methods of manuscript writing with explanations. | CO 2 | 10 |
|  | b. | The temperature in o F on 20 days during the month of June was as follows:  70° F, 76° F, 76° F, 74° F, 70° F, 70° F, 72° F, 74° F, 78° F, 80° F, 74° F, 74° F, 78° F, 76° F, 78° F, 76° F, 74° F, 78° F, 80° F, 76° F   1. What is the mode of the temperatures for the month of June? 2. What is the average temperature in the month of June? 3. Calculate the deviations in the temperature during the month. 4. Calculate the median temperature in the month of June. | CO 2 | 10 |

ALL THE BEST