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

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

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| **Code :** | **16MA4001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **RESEARCH METHODOLOGY** | **Max. marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Marks** |
| 1. | a. | Write a short notes on Pilot survey its uses in research work | 10 |
| b. | Explain the problems encountered by researchers in our country | 10 |
| (OR) | | | |
| 2. | a. | Give a detailed notes about the components of a research problem | 10 |
| b. | Explain in detail about the criteria of a good research work | 10 |
|  |  |  |  |
| 3. | a. | Write the need and features of a good research design | 10 |
|  | b. | Write a detailed notes about the research design for descriptive and diagnostic research studies | 10 |
| (OR) | | | |
| 4. | a. | Explain formal and informal experimental designs | 12 |
|  | b. | Explain the significance and importance of literature review in research. | 8 |
|  |  |  |  |
| 5. | a. | Explain in detail about primary and secondary data collection | 12 |
|  | b. | Distinguish between survey and experiment | 8 |
| (OR) | | | |
| 6. | a. | Explain in detail about case study | 10 |
|  | b. | Write a short notes on role of Statistics in research | 10 |
|  |  |  |  |
| 7. | a. | Explain in detail, the layout of a research report | 10 |
|  | b. | What is piracy? Write short notes about it. | 10 |
| (OR) | | | |
| 8. | a. | Give in detail, the precautions required for writing research report | 10 |
|  | b. | Write short notes on (i) Impact factor (ii) Journal index | 10 |
|  |  |  |  |
|  | | **Compulsory:** |  |
| 9. |  | A researcher wants to test if there is any significant relationship between two variables. He has taken measurements from 10 persons and the data are given below:  Variable X: 158 175 163 171 184 169 172 161 166 161  Variable Y: 68 72 80 86 91 60 76 75 79 88  Calculate the descriptive statistics: Mean, Median, Mean deviation about mean and median. Find the correlation coefficient and two regression lines.  Give your interpretation. | 20 |