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D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1

**SEMESTER EXAMINATIONS**

 **NOVEMBER - 2018 15CPCO3D RESEARCH METHODOLOGY**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***Time: 3 Hrs Max.Marks : 75

SECTION-A (5x 6 =30)

**Answer ALL the questions.**

1. (a) Enlist the characteristics of research.

(Or)

(b) Enumerate the steps in research.

1. (a) Enlist and explain the sources of data.

(Or)

(b) Discuss the essentials of sampling in research.

1. (a) Describe the procedure of the data processing.

(Or)

 (b) Clearly explain the characteristics of hypothesis in research.

1. (a) Discuss the techniques of analysis of variance.

(Or)

(b) Calculate two regression equations from the following data.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| X | 10 | 12 | 13 | 12 | 16 | 15 |
| Y | 40 | 38 | 43 | 45 | 37 | 43 |

 Also estimate Y when X = 20.

1. (a) Enumerate the requisites of a good research report.

(Or)

(b) Describe the layout of a research report.

SECTION-B (3x15 =45)

 **Answer any THREE of the following questions.**

1. Discuss the different types of research.
2. Distinguish between questionnaire and schedule.
3. Distinguish between classification and tabulation.
4. Describe the significance of SPSS package in data analysis.
5. Based on the information on 1,000 randomly selected fields about the tenancy status of the cultivation of these fields and use of fertilizers, collected in an agro-economic survey, the following classification was noted:

|  |  |  |  |
| --- | --- | --- | --- |
| Particulars | Owned | Rented | Total |
| Using fertilizers | 416 | 184 | 600 |
| Not using fertilizers | 64 | 336 | 400 |
| Total | 480 | 520 | 1,000 |

 Would you conclude that owner cultivators are more inclined towards the use of fertilizers

 at 5% level? Carry out the chi-square test as per testing procedure.

**\* \* \* \* \* \* \***