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

**SEMESTER EXAMINATIONS**

 **NOVEMBER – 2016 15CPCO3D**

***RESEARCH METHODOLOGY***

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

**SECTION – A (5 X 6 =30)**

**Answer ALL the questions.**

1. a) What are the classifications of research on the basis of method of investigation?

 (Or)

 b) What are the major steps in research process?

1. a) Explain briefly the different types of sampling techniques.

 (Or)

 b) Enumerate the different methods of collecting data.

1. a) Enumerate the various techniques of coding data.

 (Or)

 b) Elucidate the role of pictorial representation in statistical analysis and what are the most commonly

 used diagrams and graphs.

1. a) The quantity of a raw material purchased by a company at the specified prices during the 12

 months of 2015 is given:

|  |  |  |
| --- | --- | --- |
| Month | Price per Kg(Rs.) | Quantity Kg. |
| Jan | 96 | 250 |
| Feb | 110 | 200 |
| Mar | 100 | 250 |
| Apr | 90 | 280 |
| May | 86 | 300 |
| Jun | 92 | 300 |
| Jul | 112 | 220 |
| Aug | 112 | 220 |
| Sep | 108 | 200 |
| Oct | 116 | 210 |
| Nov | 86 | 300 |
| Dec | 92 | 250 |

1. Can you estimate the quantity likely to be purchased if the price shoots up to Rs.124/Kg?
2. Obtain the coefficient of correlation between the price prevailing and the quantity demanded.

 (Or)

b) Out of 8000 graduates in a town, 800 are female; out of 1600 graduate employees 120 are

 female. Use X2  to determine if any distinction is made in appointment on the basis of sex.Value of

 X2 for 5% level for one degree of freedom is 3.84.

1. a) Explain briefly the structure of a research report.

(Or)

b) Briefly explain the various types of research report.

**SECTION – B (3 X 15 =45)**

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

1. Briefly discuss the various types of hypothesis.
2. Distinguish between interview and schedule method.
3. Enumerate briefly the different statistical methods used in the analysis of research data and their relevance.
4. There are three brands of talcum powder. A set of 120 sample values is examined and found to be allocated among four groups(A,B,C & D) and three brands ( I ,II & III) as shown here under.

|  |  |
| --- | --- |
| BRANDS |  GROUPS |
| A | B | C | D |
| I | 0 | 4 | 8 | 15 |
| II | 5 | 8 | 13 | 6 |
| III | 18 | 19 | 11 | 13 |

 Is there any significant difference in brands preference? Answer at 5% level, using one - way ANOVA. (Table value of $F $at 5% level for (2,9) df=4.26)

1. What are the requisites of a good research report?

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