**Total No. of Pages:** 2 **6322**

Register Number:

Name of the Candidate:

M.Sc. DEGREE EXAMINATION - 2012

**(YOGA-Lateral Entry)**

**(SECOND yEAR)**

**(paper – VI)**

221. STATISTICS IN YOGA

*Dec.*) (*Time: 3 Hours*

Maximum: 100 Marks

**SECTION - A
 Answer ALL questions (10 ×2 = 20)**

|  |  |
| --- | --- |
|  | Define Statistics. |
|  | Give the meaning of Diagram. |
|  | Define Frequency Polygon. |
|  | Give the meaning of Graph. |
|  | Compute the Arithmetic Mean from the following data 56,52,65,44,83,76,80 |
|  | State the meaning Type I Error. |
|  | What is Range? |
|  | What is Deciles? |
|  | Explain Skewness. |
|  | Define Standard Error. |

**SECTION - B
 Answer any THREE questions (3 × 20 = 60)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Compute Median from the following data:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| C-I | 0-20 | 20-40 | 40-60 | 60-80 | 80-100 |
| f | 8 | 16 | 24 | 12 | 40 |

. |
|  | Find out the Q3 from the data:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| C-I | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 |
| f | 4 | 20 | 38 | 24 | 10 |

. |
|  | Find out P40 and P85 from the data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| X | 40 | 50 | 60 | 70 | 80 | 90 |
| f | 4 | 8 | 12 | 16 | 10 | 5 |

 |
|  | Calculate the co-efficient of correlation

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X | 75 | 88 | 95 | 70 | 60 | 80 | 81 | 50 |
| Y | 120 | 134 | 150 | 115 | 110 | 140 | 142 | 100 |

 |
|  | Bring out the usefulness of correlation analysis. |
|  | Bring out the objects of purposes of Sampling. |
|  | Explain the importance of statistics. |
|  | Diagram show only approximate values but note accurate values-Discuss. |

**SECTION - C
 Answer any THREE questions (3 × 20 = 60)**

|  |  |
| --- | --- |
|  | Briefly explain the various types of diagram |
|  | Calculate mean, median and mode from the following data.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Wages | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 |
| No. of workers | 150 | 75 | 50 | 75 | 100 | 40 |

. |
|  | What are merits and demerits of mean , median and mode? |
|  | Calculate skewness from the data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| X | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| Y | 2 | 4 | 5 | 3 | 2 | 1 | 4 |

. |
|  | Explain the meaning of analysis variance note down the significance of the analysing variance |

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