



**Avinashilingam Institute for Home Science and Higher Education for Women**  
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)  
Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC  
Coimbatore - 641 043, Tamil Nadu, India

**Continuous Internal Assessment – II (October, 2025)**

**Class: II UG**  
**Major: Economics**

**Time: 2 Hours**  
**Max. Marks: 60**

**25BECSE1 - Computer Applications in Economics – SPSS/R/Python**

**Course Outcomes:**

- CO 1 Have knowledge to work with MS word
- CO 2 Have basic skills in data entry and data formatting
- CO 3 Have exposure to quantitative tools and charting the data
- CO 4 Apply simple statistical techniques to economic problem
- CO 5 Be able to prepare presentations for seminars /conference in PowerPoint mode

**SET - 1**

**Answer Any FOUR questions**

**4 x 15 = 60**

1. Find the standard deviation for the following data in excel/SPSS/R/Python

**CO4K4**

<b>X</b>	10	20	36	42	45	40	50	46	40	35
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2. Compute mean deviation for the following data in excel/SPSS/R/Python

**CO4K4**

<b>X</b>	40	45	50	55	60	65	70
<b>F</b>	10	12	11	15	18	9	5

3. Calculate coefficient of correlation for the following data of prices and demand using Excel/SPSS/R/Python

**CO4K4**

<b>X</b>	43	54	85	91	59	95	68	79	73	72
<b>Y</b>	105	98	53	49	84	40	73	59	63	52

4. The following data shows the number of graduates of a college for a particular time period in different streams. Construct Simple bar diagram from the following data in Excel/SPSS/R/Python

**CO3K4**

<b>Streams</b>	<b>Arts</b>	<b>Commerce</b>	<b>Science</b>	<b>Management</b>
<b>Number of graduates</b>	92	74	42	51

5. Create a scatter plot in excel/SPSS/R/Python and comment on the relationship. **CO3K4**

<b>Temperature</b>	22.4	26.3	20.8	30.3	22.1
<b>Sales</b>	215	320	182	331	512



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**23BECSE1 - Computer Applications in Economics**

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**SET - 2**

**Answer Any FOUR questions**

**4 x 15 = 60**

1. Calculate Mean, Median and Mode for the following data in excel/SPSS/R/Python **CO4K4**

Class Interval	60-69	70-79	80-89	90-99	100-109	110-119
Frequency	5	15	20	30	20	8

2. Represent the following data on expenditure through a Pie chart in Excel/SPSS/R

**CO3K4**

Items	Expenditure (in Rs.)
Grocery	5000
Medicine	3500
Utility bills	3000
Miscellaneous	1500

3. Create histogram for the following data in Excel/SPSS/R

**CO3K3**

Class interval	5-10	10-15	15-20	20-25	25-30	30-35
Frequency	5	7	2	4	2	5

4. Prepare a Line graph for the following data on average monthly rainfall of two cities in Excel/SPSS/R

**CO3K3**

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
City 1	5	3.8	3	2.3	1.8	1.3	1	1.6	2	3.6	4	4.8
City 2	2	1.7	2.3	1	0.5	0.3	0.6	0.8	1.3	2	2.3	1.5

5. Calculate regression (coefficient of determination) for the following data

**CO4K3**

<b>X (weekly average study hours)</b>	16	14	12	11	12	15	12	13
<b>Y (Grade scored)</b>	3.7	3.5	3.2	3	3.1	3.5	3.25	3.3