



**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 Test - I, August-2025**

**Class: II UG**  
**Major: Mathematics**

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

**Generic Elective**  
**23BECGE5 - Data Analysis with Excel / SPSS / R / Python**

**Course Outcome:**

1. Knowledge in doing simple computations using Excel sheet.
2. Understanding the basic of data entry and importing and exporting data.
3. Comprehend the technique of data visualization and descriptive statistics.
4. Acquire proficiency in computing multivariate statistical techniques.
5. Proficiency to apply analytical skill in research.

**Theory questions:**

**Answer the following questions**

**Answer any three**

**3\*10=30**

1. Explain the different types of 't' test in statistics? **CO1K2**
2. What are the advantages and disadvantages of R? **CO3K2**
3. Discuss the importance of SPSS with its limitations? **CO4K2**
4. Describe the functions of descriptive statistics? **CO3K2**
5. Explain the merits and demerits of using Python as a programming language? **CO5K2**
6. Explain the process for importing and exporting of data in SPSS? **CO2K2**

**Practical questions:**

**Answer the following questions**

**Answer any three**

**3\*10=30**

1. Find out **Net salary** (Gross salary – Total Deductions) for 5 employees of a company in MS Excel **CO1K3**

Gross salary	75000	85000	95000	55000	60000
Total Deductions	2500	3000	15000	2000	1500

2. Calculate **Log and natural log** in MS Excel for the following data on stock prices of SBI Life Insurance for the year 2025. **CO1K3**

Month	January	February	March	April	May	June	July	August
Stock price	807	797	820	812	789	772	689	773

3. Generate **Descriptive statistics** in MS Excel / SPSS for the following data on scores obtained by students in an IQ test. **CO3K3**

Name of the student	Abinaya	Banu	Chithra	Devi	Fathima	Nandini	Malathy
Scores	98	78	92	69	74	61	58

4. Calculate **Mean, Median and Mode** for Annual salary in Excel / SPSS. **CO3K3**

Job	Electrician	Plumber	Sales manager	Engineer	Supervisor
Annual Salary (in Rs.)	15000	12000	20000	35000	18000

**Number of copies: 25**

**Staff In-charge: Dr.M.Shanthi & Dr.Lavanya.V.L**