

### **Statistics and Analytics**

#### **BRANCH** :- ALL

These Questions are made for your previous exam, from PYQ and some internet....(Notes reference le Lena ek baar)

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Based on 2024 PYQ + Official Syllabus + Paper Pattern

# **WIT 1: Statistical Data Collection and Types**

- 1. Define **qualitative**, **quantitative**, **discrete** & **continuous** data with examples. ( PYQ)
- 2. List any 3 data collection tools: Questionnaire, Survey, Interview.
- 3. What is **data classification**? Explain types with example.
- 4. Explain the **process and importance of data cleaning**.

# **UNIT 2: Summarization of Data (Charts, Tables, Excel)**

- 1. Define: Bar Graph, Pie Chart, Line Graph, Histogram. ( PYQ)
- 2. Create a **frequency table** using a dataset. ( Apple Sales PYQ)
- 3. Draw a **grouped bar chart** for temperature data of 3 cities. (PYQ)
- 4. Difference between bar graph and histogram.
- 5. Explain: stem-and-leaf plot, box plot, frequency polygon.
- 6. What is a **relative frequency table**? How is it made in Excel?
- 7. How to add **labels, title, legend** to charts in Excel? ( MCQs)

## UNIT 3: Measures of Location & Dispersion

- 1. Calculate **Mean, Median, Mode, Range** of a dataset. ( PYQ)
- 2. Define & compare: **Standard Deviation**, **Variance**, **Mean Deviation**. ( PYQ)
- 3. Explain **skewness** and **kurtosis** with interpretation. ( PYQ)
- 4. What is **symmetry in data** distribution? Give example.
- 5. Short notes: Box plot, Quartiles, IQR

# **UNIT 4: Python Programming Basics**

1. Write a **Python function** to find cube of a number. (*PYQ*)

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- 2. Create a **float array** using the array module in Python. ( PYQ)
- 3. Define: Variables, Data Types, Comments in Python.
- 4. Explain **if-else** and **while loop** with examples. ( PYQ Short Notes)
- 5. Define **operator**. Explain types with examples. (*PYQ*)
- 6. Important Python/Excel MCQs:
  - o print(2 \* 3 \*\* 2) **output?**
  - o Immutable datatype?
  - o Purpose of input()?
  - o What does legend do in charts?

## Short Notes (Write Any Four)

## (All from PYQ)

- If-Else Statement (PYQ)
- While Loop (PYQ)
- Standard Deviation (PYQ)
- Variance (PYQ)
- Line Graph (PYQ)
- Skewness
- Histogram
- Frequency Table

# 2025 Exam Smart Strategy

# Unit Priority Tips UNIT 1 ✓ High Theory-based, scoring, 7-mark question confirmed

UNIT 2 Very High Excel-focused, Graphs + Table creation comes every time

UNIT 3 Must-Do SD, Mean, Skewness, Variance – all PYQ-based

UNIT 4 ✓ Easy Marks Python: 10+ marks from programs + MCQs

## **Focus Revision Topics:**

- Data Types (Quali/Quanti)
- Frequency Table + Excel Graphs
- Mean, SD, Variance, Skewness
- Python: Array, Function, Loops
- MCQs from output-based or chart-based logic

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