

# Mock Test 1 - Data Science - PPT - PW Skills

Section 1: MCQs

Section 2: Coding Questions

khushi.btech1@gmail.com [Switch account](#)



Draft saved

\* Indicates required question

Email \*

Your email

Name \*

Khushi Gupta

Phone Number \*

8826570720



1. What is memory allocation in Python? \*

2 points

- ☒ Process of allocating memory to variables
- ☐ Process of releasing memory from variables
- ☐ Process of managing memory usage in Python
- ☐ Process of storing memory addresses of variables

2. What is the difference between a module and a package in Python? \*

2 points

- ☐ Modules are used for data storage, while packages are used for code organization
- ☐ Modules contain functions and classes, while packages contain modules
- ☒ Modules are single files, while packages are directories with multiple files
- ☐ Modules are imported using import statement, while packages are imported using from statement

3. Which statement best describes list comprehension in Python? \*

2 points

- ☒ A way to create a new list based on an existing list, using a concise syntax
- ☐ A method to access elements from a list using their indexes
- ☐ A technique to combine multiple lists into a single list
- ☐ A method to remove elements from a list based on a given condition



4. What is a lambda function in Python? \*

2 points

- ☒ A function that is defined using the lambda keyword and doesn't have a name
- ☐ A function that can only accept a single argument
- ☐ A function that can only return a single value
- ☐ A function that is used for recursive operations

5. What is the purpose of the 'assert' statement in Python? \*

2 points

- ☒ To check if a condition is True and raise an error if it's False
- ☐ To execute a block of code repeatedly until a condition is met
- ☐ To compare two values and return a Boolean result
- ☐ To stop the execution of a program

6. Which statement best describes mutable objects in Python? \*

2 points

- ☐ Objects that cannot be modified once they are created
- ☒ Objects that can be modified once they are created
- ☐ Objects that can be accessed using their indexes
- ☐ Objects that are used to store multiple values



7. What is the main difference between an iterator and a generator in Python?

\* 2 points

- ☐ Iterators can only be used with for loops, while generators can be used with any loop construct
- ☐ Iterators are used for traversing data structures, while generators are used for creating iterators
- ☐ Iterators are defined using classes, while generators are defined using functions with the 'yield' keyword
- ☒ Iterators can only iterate forward, while generators can iterate both forward and backward

8. What is the purpose of the yield keyword in Python? \*

2 points

- ☒ To define a generator function
- ☐ To stop the execution of a function and return a value
- ☐ To perform mathematical calculations
- ☐ To access the next element in an iterable object

9. What does descriptive statistics involve? \*

2 points

- ☐ Analyzing relationships between variables
- ☒ Summarizing and describing data
- ☐ Testing hypotheses about a population
- ☐ Drawing conclusions based on sample data



10. Which analysis involves examining the relationship between two variables?

\* 2 points

- ☐ Univariate analysis
- ☒ Bivariate analysis
- ☐ Multivariate analysis
- ☐ Descriptive analysis

11. Which measure represents the center of a distribution? \*

2 points

- ☒ a) Mean
- ☐ b) Standard deviation
- ☐ c) Variance
- ☐ d) Range

12. Which measure describes the spread or variability of data? \*

2 points

- ☐ Mean
- ☐ Median
- ☐ Mode
- ☒ Standard deviation



13. What is Bessel's correction used for? \*

2 points

- ☐ Adjusting the sample size
- ☒ Correcting bias in sample variance estimation
- ☐ Calculating confidence intervals
- ☐ Estimating population parameters

14. What does the five number summary consist of? \*

2 points

- ☐ Mean, median, mode, standard deviation, and range
- ☒ Minimum, first quartile, median, third quartile, and maximum
- ☐ Mean, median, mode, interquartile range, and variance
- ☐ Minimum, maximum, standard deviation, and range

15. What is the definition of probability? \*

2 points

- ☐ The study of random events
- ☒ The likelihood of an event occurring
- ☐ The total number of outcomes
- ☐ The ratio of successes to failures



16. Which distribution is characterized by a symmetric bell-shaped curve? \* 2 points

- ☒ Normal distribution
- ☐ Uniform distribution
- ☐ Exponential distribution
- ☐ Poisson distribution

Next

Clear form

Never submit passwords through Google Forms.

This form was created inside of physicswallah. [Report Abuse](#)

Google Forms



