

## Module 7 Quiz and Explanation

1) Which mode is used to read a file in Python?

- a) w
- b) r
- c) a
- d) x

**Answer:** b) r

**Explanation:** 'r' mode opens a file for reading only and raises an error if the file does not exist.

2) Which mode allows both reading and writing a file?

- a) r
- b) w
- c) r+
- d) a

**Answer:** c) r+

**Explanation:** 'r+' lets you read and write without deleting the existing content.

3) Which method reads the full content of a file?

- a) `read()`
- b) `readline()`
- c) `readlines()`
- d) `readchar()`

**Answer:** a) `read()`

**Explanation:** `read()` returns the entire file content as a single string.

4) Which method moves the file pointer to a specific position?

- a) `close()`
- b) `seek()`
- c) `tell()`
- d) `flush()`

**Answer:** b) `seek()`

**Explanation:** `seek()` repositions the file pointer to a chosen byte location.

5) Why do we handle exceptions in Python?

- a) To stop execution always
- b) To handle runtime errors safely
- c) To print errors only
- d) To ignore warnings

**Answer:** b) To handle runtime errors safely

**Explanation:** Exception handling ensures the program can manage unexpected errors without crashing.

**6) Which keyword is used to catch exceptions?**

- a) `if`
- b) `else`
- c) `except`
- d) `finally`

**Answer:** c) `except`

**Explanation:** The `except` block is used to handle the raised exceptions.

**7) What does the `finally` block do?**

- a) Runs only on error
- b) Executes always
- c) Skips on success
- d) Runs after except only

**Answer:** b) Executes always

**Explanation:** The `finally` block executes whether or not an exception occurs, often used for cleanup actions.

**8) Which statement automatically closes a file after use?**

- a) `close()`
- b) `flush()`
- c) `with`
- d) `end`

**Answer:** c) `with`

**Explanation:** Using `with open()` automatically handles file closing, even if an error occurs.

**9) What error occurs if you open a missing file in 'r' mode?**

- a) `ValueError`
- b) `KeyError`
- c) `FileNotFoundException`
- d) `IOError`

**Answer:** c) `FileNotFoundException`

**Explanation:** This error occurs when the specified file does not exist and you attempt to open it in read mode.