**1. In what modes should the PdfFileReader() and PdfFileWriter() File objects be opened?**

* **PdfFileReader()**: Should be opened in **binary read mode** ('rb').
* **PdfFileWriter()**: Should be opened in **binary write mode** ('wb').

**2. From a PdfFileReader object, how do you get a Page object for page 5?**

page = pdf\_reader.getPage(4) # Page numbers are zero-indexed, so page 5 is index 4

**3. What PdfFileReader variable stores the number of pages in the PDF document?**

The numPages attribute stores the number of pages:

num\_pages = pdf\_reader.numPages

**4. If a PdfFileReader object’s PDF is encrypted with the password swordfish, what must you do before you can obtain Page objects from it?**

You must decrypt the PDF using the decrypt() method:

pdf\_reader.decrypt('swordfish')

**5. What methods do you use to rotate a page?**

use the rotateClockwise() or rotateCounterClockwise() methods on a Page object:

page.rotateClockwise(90) # Rotates the page 90 degrees clockwise

**6. What is the difference between a Run object and a Paragraph object?**

* **Paragraph object**: Represents a block of text in a Word document. It can contain multiple Run objects.
* **Run object**: Represents a contiguous sequence of text with the same style (e.g., font, size, color). A Paragraph can contain multiple Run objects.

**7. How do you obtain a list of Paragraph objects for a Document object that’s stored in a variable named doc?**

Use the paragraphs attribute of the Document object:

paragraphs = doc.paragraphs

**8. What type of object has bold, underline, italic, strike, and outline variables?**

A Run object has these attributes to control text formatting.

**9. What is the difference between False, True, and None for the bold variable?**

* **True**: The text is bold.
* **False**: The text is not bold.
* **None**: The text inherits the bold setting from the style hierarchy.

**10. How do you create a Document object for a new Word document?**

Use the Document() constructor from the python-docx library:

from docx import Document

doc = Document()

**11. How do you add a paragraph with the text 'Hello, there!' to a Document object stored in a variable named doc?**

Use the add\_paragraph() method:

doc.add\_paragraph('Hello, there!')

**12. What integers represent the levels of headings available in Word documents?**

Headings are represented by integers from 0 to 9:

* **0**: Title (not technically a heading level but often used for the document title).
* **1**: Heading 1 (top-level heading).
* **2**: Heading 2.
* ...
* **9**: Heading 9 (lowest-level heading).

To add a heading, use:

doc.add\_heading('Heading Text', level=1) # Level 1 heading