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

**Should be opened in binary mode ('rb') when reading an existing PDF file, and in binary write mode ('wb') when creating a new PDF file.**

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

**You can use the getPage method of the PdfFileReader object to get the page object for a specific page:**

**from PyPDF2 import PdfFileReader**

**pdf\_file = PdfFileReader("path\_to\_file.pdf")**

**page\_5 = pdf\_file.getPage(4)**

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

**The number of pages in a PDF document stored in the PdfFileReader object can be accessed using the numPages attribute**

**from PyPDF2 import PdfFileReader**

**pdf\_file = PdfFileReader("path\_to\_file.pdf")**

**num\_pages = pdf\_file.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?

**Decrypt it using the decrypt method of the PdfFileReader object before you can obtain Page objects from it. The decrypt method takes the password as a string argument**

**from PyPDF2 import PdfFileReader**

**pdf\_file = PdfFileReader("path\_to\_file.pdf")**

**pdf\_file.decrypt("swordfish")**

**page\_5 = pdf\_file.getPage(4)**

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

**from PyPDF2 import PdfFileReader**

**pdf\_file = PdfFileReader("path\_to\_file.pdf")**

**page = pdf\_file.getPage(0)**

**page.rotateClockwise(90)**

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

**In python-docx, a Paragraph object represents a paragraph in a Word document and a Run object represents a portion of text within a paragraph with the same formatting. A Paragraph can contain one or more Run objects. The Run object defines the specific formatting of text, while the Paragraph object defines the overall structure and formatting of a paragraph**

7. How do you obtain a list of Paragraph objects for a Document object that’s stored in a variable named doc? **To get a list of Paragraph objects from a Document object in python-docx, access the paragraphs attribute of the Document object.**

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

9. What is the difference between False, True, and None for the bold variable? **True means the property is “on”, False means it is “off”. Conceptually, the None value means “inherit”**

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

**import docx**

**doc = docx.Document()**

**doc.add\_paragraph('This is a paragraph in the new Word document.')**

**doc.save('new\_word\_document.docx')**

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

**from docx import Document**

**doc = Document()**

**para = doc.add\_paragraph("Hello, there!")**

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

**In Microsoft Word, headings are usually represented as integers from 1 to 9, where each integer represents a specific level of heading. For example, a "Heading 1" is represented as 1, "Heading 2" as 2, and so on. These integers are used to indicate the hierarchy of the headings within a document and to format the headings in a specific way.**