

Q1. In Python 3.X, what are the names and functions of string object types?

```
1 str()
2 bytes()
3 bytearray()
```

Q2. How do the string forms in Python 3.X vary in terms of operations?

```
1 1.str():represents Unicode strings, which can include characters from various
   languages.like lower(),upper() etc
2 bytes():represents a sequence of bytes, which typically contains ASCII characters
   or encoded binary data. like ord(),chr()
3 bytearray(): is similar to bytes and represents a mutable sequence of bytes.like
   decode()
```

Q3. In 3.X, how do you put non-ASCII Unicode characters in a string?

```
1 With the help of Unicode escape sequences
```

Q4. In Python 3.X, what are the key differences between text-mode and binary-mode files?

```
1 Text files write data and read data in user friendly manner like strings and
   characters.
2 Binary files store data in binary format
3 Text files are used to store data more user friendly.
4 Binary files are used to store data more compactly.
```

Q5. How can you interpret a Unicode text file containing text encoded in a different encoding than your platform's default?

```
1 By using the encoding='utf-16' parameter in open() function
```

Q6. What is the best way to make a Unicode text file in a particular encoding format? 📄

```
1 by specifying the format of the textt in the enpcding parameter and writing the  
  smae format text into the file  
2 with open('sample.txt', 'w', encoding='utf-8') as file:  
3     file.write(text)
```

Q7. What qualifies ASCII text as a form of Unicode text?

```
1 Due to its compatibility, encoding options, and interoperability with Unicode  
  systems
```

Q8. How much of an effect does the change in string types in Python 3.X have on your code?

```
1 It brings improvements in terms of consistency, Unicode support, and better  
  handling of non-ASCII text
```