Python Real Time Task Based Questions:

Question 1: Name Vowels from Long Names Task:

Code:

```python
# List of 5 people
x = ["Anusha","Deekshu", " Umera","Sri Harsha", "Gangu"]
y= []
vowel = "aeiou AEIOU"
for i in x:
    if len(i) > 5:
        for char in i:
            if char in vowel:
                y. append(char)
print(y)
```

O/P:

['A', 'u', 'a', 'e', 'e', 'u', 'i', 'a', 'a']

Question 2: Vowels from Odd Index in Sentence Task:

Code:

```python
a ="This is a extra sentence"
vowels = "aeiou AEIOU"
odd_ chars = ""
for i in range(len(a)):
    if i % 2 == 1:
        odd_ chars += a [ i ]
        vowel _ string = ""
```

```
    for char in odd _chars:
        if char in vowels:
            vowel _string += char
```

```
vowel_ length = len (vowel _string)
print("Vowels from odd indices:", vowel_ string)
print("Length of vowel string:", vowel_ length)
```
o/p:

Vowels from odd indices: iee

Length of vowel string: 3

Question 3: Concat Strings & Find Length from List

Code:
```
n = ["hello", 123, "world", True, "python"]
m= []
for i in n:
   if type(i) == str:
      m. append(i)
all_ strings = ''.join(m)
print(all_ strings)
print("Length:", len(all _strings))
```
o/p:

helloworldpython

Length: 16

Question 4: Extract 2-Digit Numbers from List

Code:

```python
x = [5, "23", "hello", 88, 105, "99", "9", 0, 67, "100", 45.5, "75"]
y = []
for i in x:
    if isinstance (i, int) and 10 <= i <= 99:
        y.  append(i)
    elif  isinstance(i, str) and i. isdigit():
        num = int(i)
        if 10 <= num <= 99:
            y. append(num)
print("2-digit numbers:", y)
```

o/p:

2-digit numbers: [23, 88, 99, 67, 75]