

In [200]:

```
import pandas as pd
import numpy as np
import seaborn as sns
from datetime import date
import matplotlib.pyplot as plt
%matplotlib inline
plt.style.use('ggplot')
```

In [201]:

```
import requests
```

In [202]:

```
url = 'https://covid19.ncdc.gov.ng/'
```

In [203]:

```
data_url = requests.get(url)
```

In [204]:

```
data_url
```

Out[204]:

```
<Response [200]>
```

In [205]:

```
covid_data = pd.read_html(data_url.text)
```

In [206]:

```
len(covid_data), type(covid_data)
```

Out[206]:

```
(1, list)
```

In [207]:

```
covid_data = covid_data[0]
```

In [208]:

```
covid_naijadata = covid_data.iloc[:,0:]
```

In [209]:

```
covid_naijadata.head()
```

Out[209]:

	States Affected	No. of Cases (Lab Confirmed)	No. of Cases (on admission)	No. Discharged	No. of Deaths
0	Lagos	3224	2600	582	42
1	Kano	883	714	133	36
2	FCT	447	290	143	14
3	Katsina	308	243	51	14
4	Borno	247	111	111	25

In [210]:

```
headers = [line.lower().replace(' ', '_').replace('no._of_cases_(lab_confirmed)','cases_confirmed').replace('no._of_cases_(on_admission)','cases_on_admission').replace('.', '') for line in covid_naijadata.columns]
covid_naijadata.columns = headers
covid_naijadata.head()
```

Out[210]:

	states_affected	cases_confirmed	cases_on_admission	no_discharged	no_of_deaths
0	Lagos	3224	2600	582	42
1	Kano	883	714	133	36
2	FCT	447	290	143	14
3	Katsina	308	243	51	14
4	Borno	247	111	111	25

In [211]:

```
TOTAL_CONFIRMED_CASES = covid_naijadata.cases_confirmed.sum()
f"The total number of confirmed CORONAVIRUS CASES in Nigeria is {TOTAL_CONFIRMED_CASES}."
```

Out[211]:

```
'The total number of confirmed CORONAVIRUS CASES in Nigeria is 7261.'
```

In [212]:

```
TOTAL_CASES_ON_ADDMISSION = covid_naijadata.cases_on_admission.sum()
f"The total number of CORONAVIRUS CASES on admission in Nigeria is {TOTAL_CASES_ON_ADDMISSION}."
```

Out[212]:

```
'The total number of CORONAVIRUS CASES on admission in Nigeria is 5033.'
```

In [213]:

```
TOTAL_NUMBER_OF_DISCHARGED_PERSONS = covid_naijadata.no_discharged.sum()
f"The total number of discharged person from CORONAVIRUS in Nigeria is {TOTAL_NUMBER_OF_DISCHARGED_PERSONS}."
```

Out[213]:

```
'The total number of discharged person from CORONAVIRUS in Nigeria is 2007.'
```

In [214]:

```
TOTAL_DEATHS = covid_naijadata.no_of_deaths.sum()
f"The total number of death due to CORONAVIRUS in Nigeria is {TOTAL_DEATHS}."
```

Out[214]:

```
'The total number of death due to CORONAVIRUS in Nigeria is 221.'
```

In [215]:

```
STATES_AFFECETD = covid_naijadata['states_affected'].value_counts().sum()
f"The total number of states affected by CORONAVIRUS in Nigeria is {STATES_AFFECETD}."
```

Out[215]:

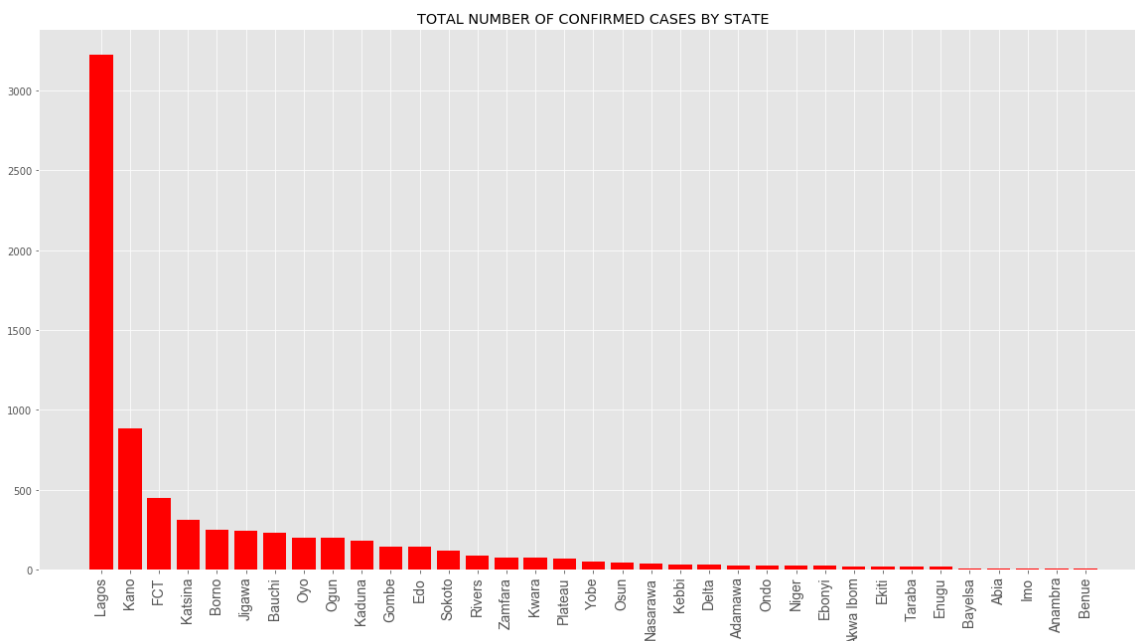
```
'The total number of states affected by CORONAVIRUS in Nigeria is 35.'
```

In [221]:

```
plt.figure(figsize=(20,10))
plt.bar(x=covid_naijadata['states_affected'], height = covid_naijadata['cases_confirmed'],color='red')
plt.xticks(rotation=90, family='Arial', size=14)
plt.title('TOTAL NUMBER OF CONFIRMED CASES BY STATE')
```

Out[221]:

```
Text(0.5, 1.0, 'TOTAL NUMBER OF CONFIRMED CASES BY STATE')
```

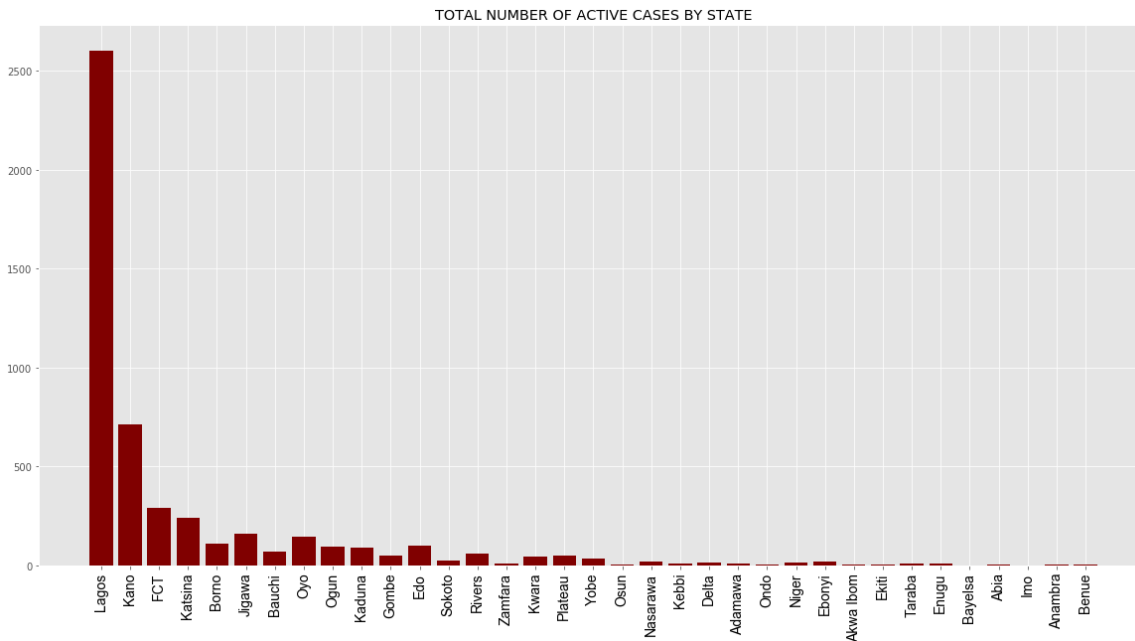


In [222]:

```
plt.figure(figsize=(20,10))
plt.bar(x=covid_naijadata['states_affected'], height = covid_naijadata['cases_on_admission'], color='maroon')
plt.xticks(rotation=90, family='Arial', color='black', size=14)
plt.title('TOTAL NUMBER OF ACTIVE CASES BY STATE')
```

Out[222]:

Text(0.5, 1.0, 'TOTAL NUMBER OF ACTIVE CASES BY STATE')



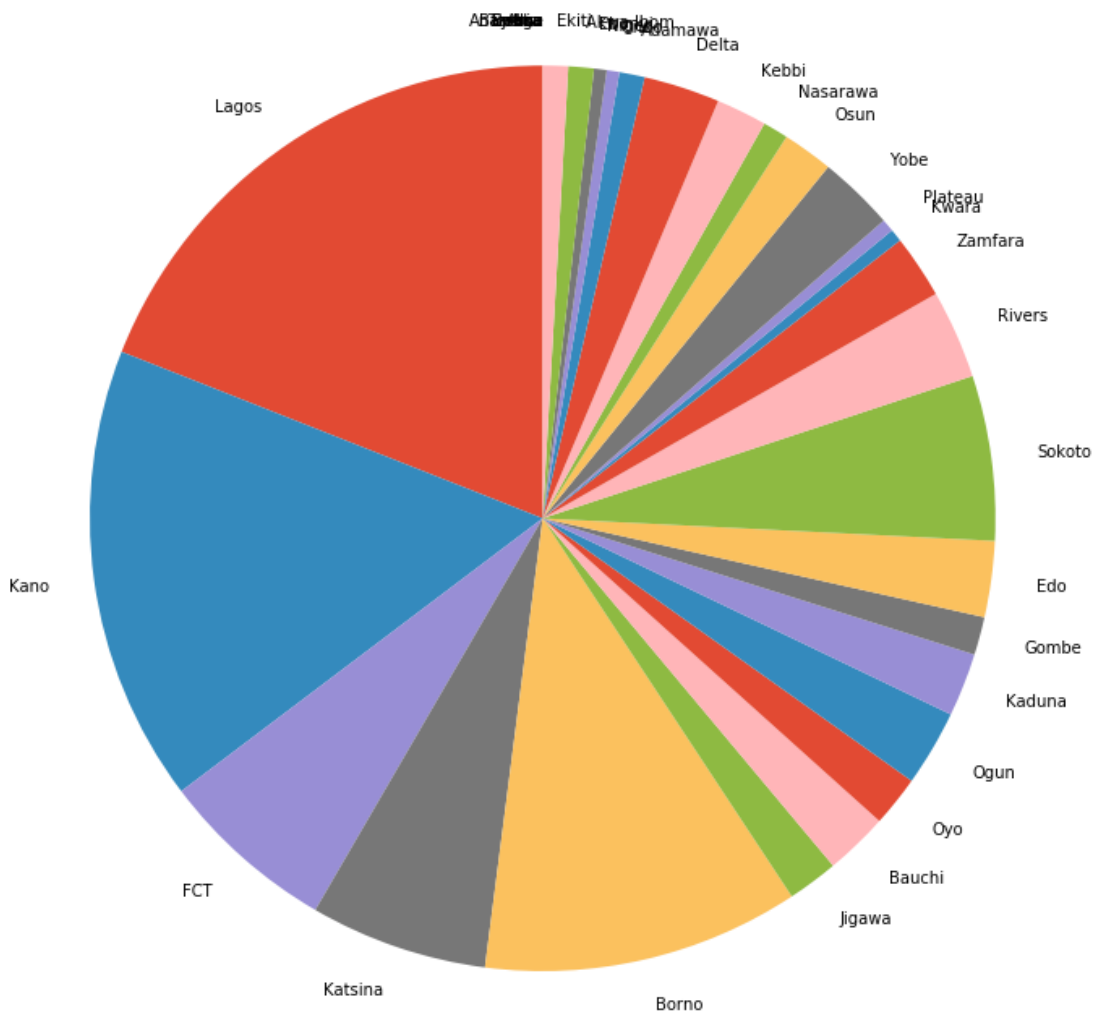
In [218]:

```
death_view=covid_naijadata[['states_affected', 'no_of_deaths']]
```

In [220]:

```
plt.figure(figsize=(10,30))
# Create a pie chart
plt.pie(
    # using data total)arrests
    death_view['no_of_deaths'],
    # with the labels being officer names
    labels=death_view['states_affected'],
    # with no shadows
    shadow=False,
    # with the start angle at 90%
    startangle=90,
)

# View the plot
plt.tight_layout()
plt.show()
```

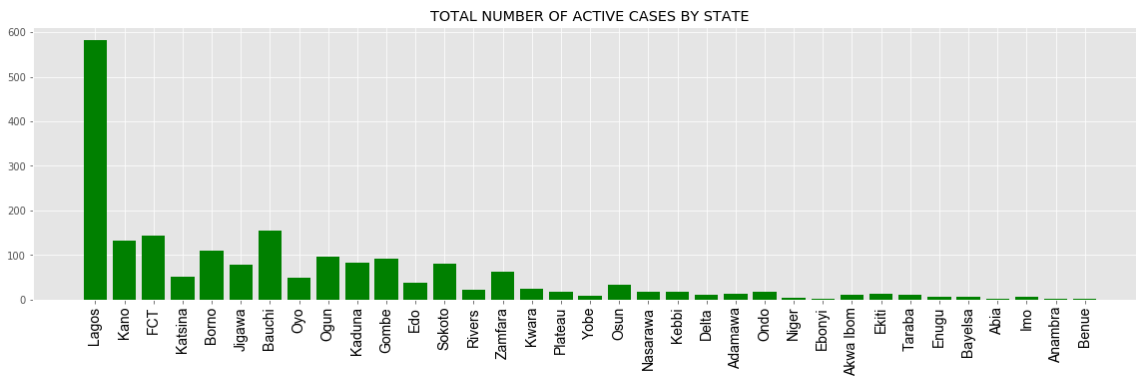


In [199]:

```
plt.figure(figsize=(20,5))
plt.bar(x=covid_naijadata['states_affected'], height = covid_naijadata['no_discharged'], color='green')
plt.xticks(rotation=90, family='Arial', color='black', size=14)
plt.title('TOTAL NUMBER OF ACTIVE CASES BY STATE')
```

Out[199]:

Text(0.5, 1.0, 'TOTAL NUMBER OF ACTIVE CASES BY STATE')



In []: