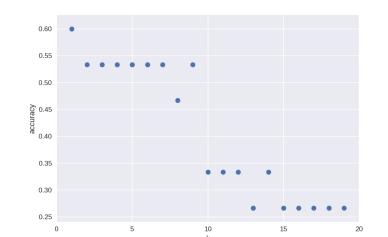


How sensitive is k-NN classification accuracy to the choice of the 'k' parameter?

```
In [13]:
    k_range = range(1,20)
    scores = []

for k in k_range:
    knn = KNeighborsClassifier(n_neighbors = k)
    knn.fit(X_train, y_train)
    scores.append(knn.score(X_test, y_test))

plt.figure()
    plt.xlabel('k')
    plt.ylabel('accuracy')
    plt.scatter(k_range, scores)
    plt.xticks([0,5,10,15,20]);
Figure 4
```



How sensitive is k-NN classification accuracy to the train/test split proportion?

* **+ + - -**

