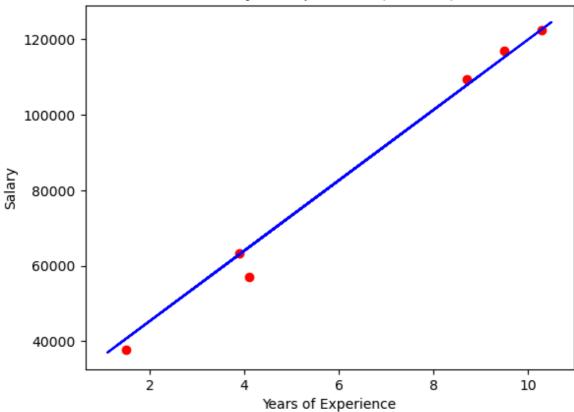
```
In [2]:
 import numpy as np
 import matplotlib.pyplot as plt
 import pandas as pd
 dataset = pd.read_csv(r"C:\Users\shaik\OneDrive\Desktop\classroom\(40) - 22nd sim
 x = dataset.iloc[:, :-1]
 y = dataset.iloc[:, -1]
 from sklearn.model_selection import train_test_split
 x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.20, random
 from sklearn.linear_model import LinearRegression
 regressor = LinearRegression()
 regressor.fit(x_train, y_train)
 y_pred = regressor.predict(x_test)
 comparison = pd.DataFrame({'Actual': y_test, 'Predicted': y_pred})
 print(comparison)
 plt.scatter(x_test, y_test, color = 'red') # Real salary data (testing)
 plt.plot(x_train, regressor.predict(x_train), color = 'blue') # Regression line
 plt.title('Salary vs Experience (Test set)')
 plt.xlabel('Years of Experience')
 plt.ylabel('Salary')
 plt.show()
 m = regressor.coef_
 print(m)
 c = regressor.intercept_
 print(c)
 y 12 = m * 12 + c
 print(y_12)
 y_20 = m * 20 + c
 print(y_20)
 y_10 = m * 10 + c
 print(y_10)
    Actual
               Predicted
    37731 40748.961841
28 122391 122699.622956
13 57081 64961.657170
10 63218 63099.142145
26 116969 115249.562855
24 109431 107799.502753
```





[9312.57512673] 26780.09915062818 [138531.00067138] [213031.60168521] [119905.85041792]

In []: