If sample information is obtained, the result of the sample information will be either positive or negative. No matter which result occurs, the choice to select option A or option B exists. And no matter which option is chosen, the eventual outcome will be good or poor. **Complete the table.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample  Result | States of  Nature | Prior  Probabilities | Conditional  Probabilities | Joint  Probabilities | Posterior  Probabilities |
| Positive | good | .7 | P(positive | good) = .8 |  |  |
|  | poor | .3 | P(positive | poor) = .1 |  |  |
| Negative | good | .7 | P(negative | good) = |  |  |
|  | poor | .3 | P(negative | poor) = |  |  |

**Also what is the probability that the Sample result will be Positive, i.e. Pr(positive) = \_\_\_\_\_\_\_\_\_\_\_ ?**