**[Que-50.36] - What is the siqmoid function and how is it used in logistic regression?**

### **The Sigmoid Function in Logistic Regression**

The sigmoid function is defined as:

σ(x)=1/(1+e^-z)

In logistic regression, it is used to map the linear combination of input features to a probability value between 0 and 1. This probability is then used to classify the input into one of the two classes.