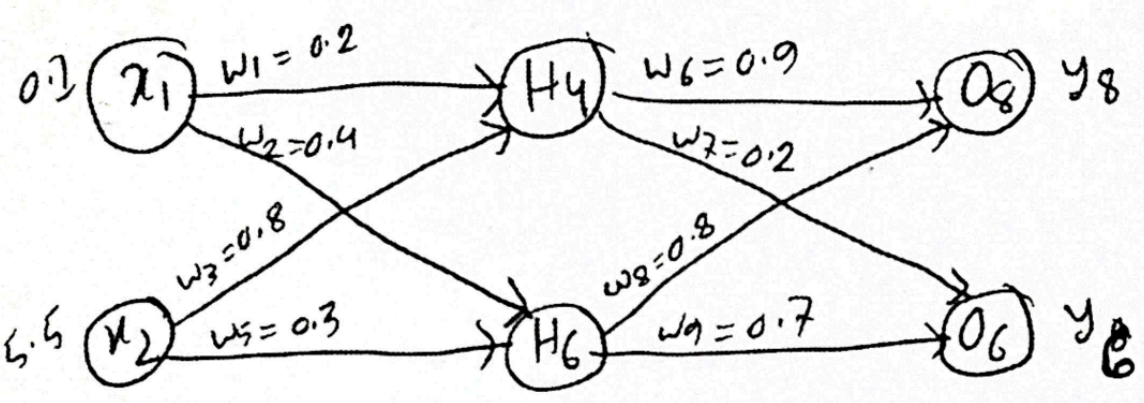


Quiz-3

Course Title: Artificial Intelligence

Time: 30 minutes

1	<p>Knowledge Base (KB):</p> <ul style="list-style-type: none"> I. $A \rightarrow (B \wedge C)$ II. $(B \rightarrow C) \vee (C \rightarrow B)$ III. $\neg C \rightarrow \neg A$ IV. $A \vee B$ <p>Given Statement: $\alpha = B$</p> <p>Construct the truth table for A, B, and C. Then determine whether KB entails α.</p>	[8]
3	 <p>Consider the activation function as sigmoid. Apply a forward pass and find the value of y_8 and y_6.</p>	[7]