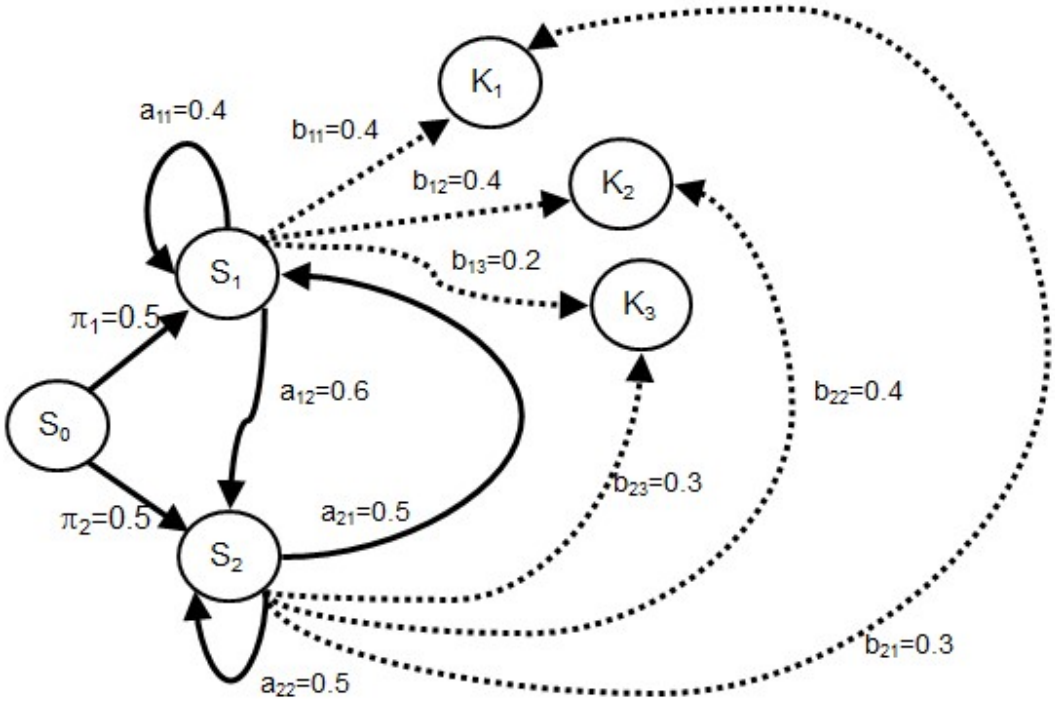
SASTRA DEEMED TO BE UNIVERSITY (U/S 3 OF THE UGC ACT, 1956) THINK MERIT | THINK TRANSPARENCY | THINK SASTRA	**School of Computing** **Course Code: CSE405R02** **Course Name: Natural Language Processing** **Duration: 3 hrs** **Max Marks: 50**

Question 3

1. From the following state diagram, find the probability of the output sequence (K2,K1,K2,K3,K1) using Trellis Forward and Backward procedure.



2. Apply Feed Forward Neural network for the task of classifying the ecommerce products with text description (Perform the required data pre-processing and feature engineering). Use TF-IDF representation
File name: Q1ecommerceDataset.