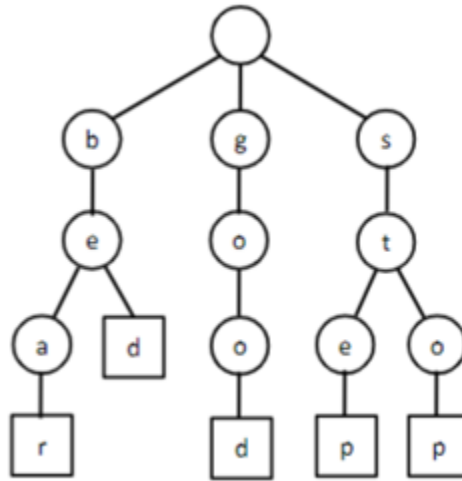# CS 201 – Data Structures II (L2), Spring 2024
Quiz # 7

Name: _____   ID: _____

Q1 – [3 points] Generate a compressed trie for the trie given below:

Compressed Trie

Q2 – Given the table below:

Doc 1	breakthrough drug schizophrenia
Doc 2	new schizophrenia drug
Doc 3	new approach treatment schizophrenia
Doc 4	new hopes schizophrenia patients

a) **Generate TF, IDF and TF-IDF matrices for the given corpus**

[4 Points] TF and IDF Values

	D1	**D2**	**D3**	**D4**	**IDF**

[2 Points] TF-IDF

	D1	**D2**	**D3**	**D4**

b) [4 Points] Calculate scores against each document for queries:

    a. "new drug"

	Score
D1	
D2	
D3	
D4	

    b. "patients treatment"

	Score
D1	
D2	
D3	
D4	