1.	. Given the 2-itemsets $\{1, 2\}$ , $\{1, 3\}$ , $\{2, 3\}$ , $\{2, 5\}$ , $\{3, 5\}$ , when generating 3-itemset we will:		
	☐ a. ☐ b. ☐ c. ☐ d. pr	Have 4 3-itemsets after the join and 4 3-itemsets after the prune Have 4 3-itemsets after the join and 2 3-itemsets after the prune Have 3 3-itemsets after the join and 3 3-itemsets after the prune Have 2 3-itemsets after the join and 2 3-itemsets after the une	
2.		e following transactions {milk, bread}, {eggs, bread}, {milk, eggs, eggs}, {milk, eggs}, {milk}	
	<ul><li>□ a.</li><li>□ b.</li><li>□ c.</li><li>□ d.</li></ul>	bread⇒milk has support 1/3 and confidence 2/3 eggs⇒milk has support 1/3 and confidence 2/3 milk⇒bread has support 1/3 and confidence 2/3 milk⇒eggs has support 1/3 and confidence 2/3	
3.		e a graph with nodes $\{1, 2, 3, 4\}$ and edges $\{1\rightarrow 2, 1\rightarrow 3, 1\rightarrow 4, 2\rightarrow 3\}$ authority values, without normalization, are:	
	b. c.	$(0, \frac{1}{4}, \frac{1}{2}, \frac{1}{4})$ $(\frac{3}{4}, \frac{1}{4}, 0, 0)$ $(0, \frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ $(\frac{1}{2}, \frac{1}{2}, 0, 0)$	
4.	If milk⇒{ then:	bread, eggs} has confidence c1 and milk⇒bread has confidence c2,	
	c.	c1 <= c2 c2 <= c1 c1 < c2 and c2 < c1 are possible c1 = c2	
5.	Given the	e following matrix for teleporting in a random walker model:	
		[0 0 1]  0 ½ 0  [1 ½ 0]	

	Which of the following is true (independent of how the link matrix is given a. A random walker can always reach node 2  b. A random walker can always reach any node  c. A random walker can always leave node 2  d. A random walker can never reach node 2	en):	
6.	Which of the following statements concerning compression of adjacency lists for link indexing is wrong:		
	<ul> <li>a. Compression can exploit the fact that most links of a page pote the page itself</li> <li>b. Compression can exploit the fact that pages with similar URL typically have also many outgoing links in common</li> <li>c. Exploiting similarity among different adjacency lists will always decrease the cost of encoding of adjacency lists</li> <li>d. Compression works well, even if we consider similarity of adjlists only for a fraction of neighbouring URLs in the lexicographic order</li> </ul>	_s jacency	
7.	Given the graph $1\rightarrow 2$ , $1\rightarrow 3$ , $2\rightarrow 3$ , $3\rightarrow 2$ , the <i>PageRank</i> value of this g (without random jumps)	raph is	
	☐ a. (0, 1, 1) ☐ b. (0, ½, ½) ☐ c. (½, ½, ½) ☐ d. (1, 0, 0)		
8.	When computing PageRank iteratively the computation ends when		
	<ul> <li>a. The norm of the rank vector exceeds a predefined threshold</li> <li>b. All nodes of the graph have been visited a predefined number times</li> </ul>	er of	
	☐ c. The norm of the difference of rank vectors of two subsections.	quent	
	<ul> <li>iterations falls below a predefined threshold</li> <li>d. The difference among the Eigenvalues of two subsequent ite falls below a predefined threshold</li> </ul>	erations	