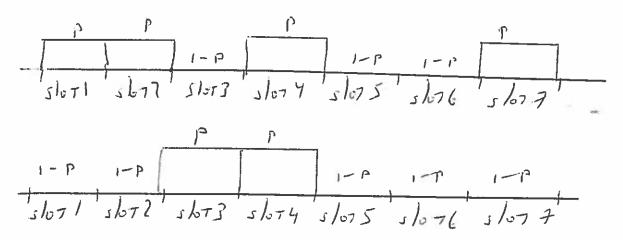
NAME:		Circle: ESE or CS/IS			
Midterm	ESE/CSE 346	T. Robertazzi	Spring 2020		
Answer all questions. Total is 20 points: Q1:8 pts. Q2: 6 Pts. Q3: 6					
pts. Show	any work.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

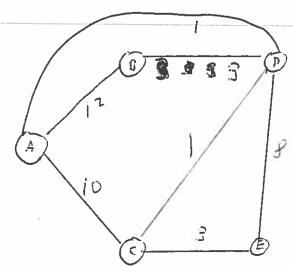
 There are two independent Bernoulli streams of packets. The independent probability of a packet arrival in a slot is p. The independent probability of no packet arrival in a slot is 1-p. Answer all questions.



- [a] Find Prob[top diagram sequence shown]:
- [b] Find Prob[both diagrams sequences shown]:
- [c] Find Prob[on one stream, 4 packets in 7 slots in any order]:
- [d] Find Prob[on one stream a single packet in 2 slots]:

2. Is there an error for a CRC code received packet 1100111011? The check bits are in included. Let G(x) be 10011. Show work.

3. Create the Dijkstra algorithm table for this network. This is a shortest path problem. Node A is the root. Only include distances in the tables, not pointers. Label the columns from left to right B C D E.

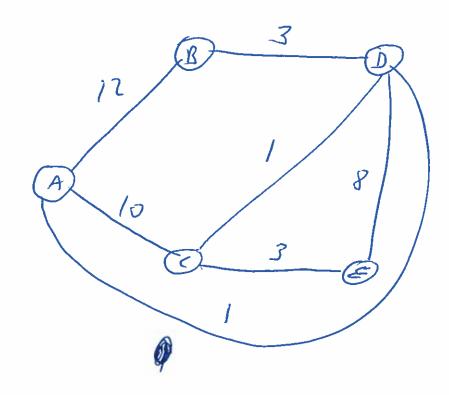


-04

Spring 2020 ESE/KJE 376 Mideelin Q1: 8 point, 62 and Q3: 6 point e. h 202/ = 20 point Answer -11 potis show all not 5 loo 1 sloo 2 stor 3 shy slop 5 stor 6 5/07 7 5/07 / s/07 2/0/2 Prote Elde 10/05 / 10/5 (a) Pros [Top digram sepane) = P (1-P) (b) Pros [box 4 digran square) = p a p) (c) Pros on one stream, 4th) P (1-P)

(d) pros (sigle person) = 2 p CIP)

MIDJERM CSC 346 CIC SPRNI 22



	N	B	C	DE
1	(A)	12	10	(D) / w
2	(A, D)	4	2	D 9
3_	(A)5,D)	4	(2)	1 5
4_	(A18, 5D)	4	2	1 15
_	(1) (1) (1) (1) (1)	4	2	1 3