

FACULTY OF COMPUTING

SECI1013

DISCRETE STRUCTURE

ASSIGNMENT 3

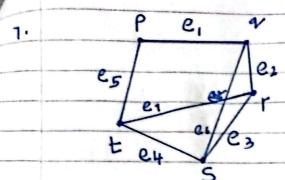
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for the the sentency for the
  1) a) k = 2 b) m=5, k=6.
   n=m(k-1)+1
     n=101(2-1)+1 = 5(6-1)+1
= 102 people
                        =26 people
  2) a) P(Bi) = \frac{70}{100} b) P(B2) = \frac{30}{100} c) P(A|B1) = \frac{20}{100}
             F.0.7 ...... 10.0 = 0.3
     d) P(A | B1) = P(A | B1) e) P(A | B2) = P(A | B2)
                 P(B1)
     P(A)B1)=P(B1) × P(A|B1) P(A)B2)=P(B2) × P(A|B2)
                                   = 0.3×0.4
            = 0.7 × 0.2
                                      = 0.12
           = 0.14
    f) P(A)= P(A)B1) + P(A)B2)
          = 0.14 + 0.12
          = 0.26
    9) P(B1 | A) = P(A | B1) P(B1)
                  P(A1B1)P(B1)+P(A1B2)P(B2)
                = 0.20 (0.7)
                 0.20 (0.7) + 0.4 (0.3)
                = 0.58
                = 4.5385
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3.	a) vertices = dot of graph (c)		
	b) Edges = The connection and lines between vertices (c) Adjacent vertices = Two vertices are adjacent if they		
	are connected directly by an edge (CTE)		
	d) Incident edge: Have vertices on each of its endpo		
	Isolated points		
	e) Incident vertex: Vertices which does not		
_	connected by any edge. (f)		
	f) Loop: edge with the endpoint (e)		
	g) parallel edges: two or more edges with some	_(
	E set of points. (e1,e2)		
	The second of th		
	9. es C (1.0)		
	es,		
	11 5 e1 (21) 1 () d 1 () () () () () () () () () (
	Je6 :0 1 1 0 2		
	p . t t		
	(+c) ((A) = f (A, B 1, + 1 (A) /=)		
	-11-0 of P1 (-12		
) <u> </u>		
	OF ECHTIAL - ECAINED PORT		
	CATHOLICATION OF COUNTRY OF THE CATHOLICATION OF TH		
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b)
$$+rail j = \{p_1t\}$$

 $+rail 2 = \{p_1t, s, t, r, t\}$
 $+rail 3 = \{p_1t, s, r, t\}$
 $+rail 4 = \{p_1t, r, s, t\}$
 $+rail 5 = \{p_1t, r, t\}$